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3434 U. S. Government Films

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and
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VISUAL EDUCATION SERVICE

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE.....OVETA CULP HOBBY, *Secretary*

Office of Education.....SAMUEL MILLER BROWNELL, *Commissioner*

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Foreword

THIS CATALOG lists and describes more than 3,000 films of the United States Government which are available for public use within the United States. While the U. S. Office of Education has prepared this catalog primarily for the use of schools and colleges, its value to all users and potential users of U. S. Government films is clearly evident. That value is particularly important today in the national defense programs. To the U. S. Office of Education and to the various departments and establishments which, in response to the Bureau of the Budget Circular A-21, furnished the information upon which this catalog is based, I wish to express my sincere appreciation.

Contents

	Page
Foreword	ii
The Catalog	iv
U. S. Government Films	1
MOTION PICTURES	1
FILMSTRIPS	218
SETS OF SLIDES	303
How and Where to Obtain U. S. Government Films	306
U. S. GOVERNMENT FILM LIBRARIES	306
16MM FILM LIBRARIES	313
SALES SOURCES	329

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The Catalog

background and purpose

The United States Office of Education, as part of its responsibility to furnish American schools and colleges with information about the educational materials and services of the Federal Government, initiated in the fall of 1949 a project calling for the periodic compilation of information about the films of U. S. Government agencies and the subsequent publication of a catalog, with supplements and revisions as needed, of those films which are available for public use in the United States[1].

In February 1950 the Bureau of the Budget, by direction of the President, issued a circular to the heads of all executive departments and establishments of the Federal Government calling their attention to the preparation of such a catalog and requesting that certain basic information about their films be furnished to the Office of Education. In its circular, the Bureau of the Budget stressed the following values of a catalog of U. S. Government films:

"It is anticipated (a) that the information so compiled and the catalog, with supplements and revisions as needed, will be helpful not only to educational institutions, other community organizations, and the general public but also to all departments and establishments of the Government; (b) that it will facilitate and expedite the answering of inquiries addressed to the Government concerning the existence and availability of Government films; and (c) that it will provide all departments and establishments with a central information source on the existence of Government films."

scope of the catalog

In the preparation of this catalog, four basic criteria have been used in defining its scope—that is, in defining a *U. S. Government film.* In the first place, "U. S. Government" has been interpreted to include all agencies of the executive, judicial, and legislative branches of the Federal Government (including wholly owned Government corporations). But not included in this catalog are films of quasi-official agencies such as the American Red Cross; of international agencies such as the Pan American Union and the United Nations; or of State and local governments.

[1] Three similar catalogs have been published previously: Office of Education, *Directory of U.S. Government Films,* 1940; Office of Education, *U.S. Government Motion Pictures and Filmstrips,* 1945; and Library of Congress, *Guide to United States Government Motion Pictures,* 1947. All are now out of print.

Second, the word "films," as used in this catalog, includes motion pictures, filmstrips, and sets of slides.

A third criterion, more difficult of interpretation than the previous two criteria, relates to the extent of ownership and sponsorship of a film by an agency of the Federal Government. In this catalog, "U. S. Government films" have been defined as those films which are (a) the property of the Federal Government, including negative and reproduction rights; or which, if not owned by the Government, are (b) presented officially by the Government and to which the Government has major distribution rights. Not included in this catalog are films, produced by non-Government sources, copies of which may have been acquired by and are being distributed by a particular Government agency, but to which the Government's equity and sponsorship extend only to these copies.

availability for public use

This catalog includes all U. S. Government films—as defined by the three above-mentioned criteria—*which are available for public use in the United States.* This fourth criterion is also difficult of interpretation, but in this catalog it has been defined as follows: If prints (copies) of a film can be purchased and used by the public in the United States, that film has been considered *available.* If prints of a film cannot be purchased, however, a film has been considered available *only if* there are sufficient prints in circulation to take care of public requests for the film. Admittedly, this number of "sufficient prints" is variable, depending upon the nature of the subject matter and the probable size of the audience for a particular film. Only those films which, the authors believe, are actually available and reasonably accessible for public use in the United States have been included in this catalog. It should be noted here that specific instructions have been given for borrowing, renting, and purchasing each of the 3,434 films included.

These, then, are the four criteria used in the selection of the U. S. Government films included in this catalog. Only those films which met these criteria have been included. Not included in this catalog are films which have been withdrawn because of obsolescence or other reasons; films which are used solely as working tools by a Government agency; films which consist of unedited footage or "stock shots"; and films whose public use in the United States is prohibited for security reasons, legal restrictions, or policy considerations.

preparation of the catalog

In accordance with the provisions of the Bureau of the Budget circular, referred to above, each agency of the Government provided the Office of Education with information about its films; and to all such agencies, the

Office of Education hereby expresses its appreciation for their cooperation and assistance. From such information, which was checked and cross-checked against all available reference materials, the Office of Education prepared descriptions and summaries of the films, and then re-checked such descriptive data with each of the various agencies whose films are included in this catalog.

This is, of course, an overly simplified explanation of the preparation of this catalog. Many additional steps were taken in the compilation of the information, in the checking of the accuracy and authenticity of such information, and in the cataloging process itself. Such steps need not be described—they can be inferred—except to say that the Office of Education has, insofar as possible, made sure that the catalog is an accurate and complete listing—as of April 1, 1951—of every U. S. Government motion picture, filmstrip, and set of slides available for public educational use within the United States.

U. S. Government Films

Motion Pictures

ALL of the motion pictures listed and described in this catalog are 16mm films. Unless otherwise indicated they are sound and black-and-white films; color and/or silent films are so identified.

Each motion picture is described as follows: (a) the title of the film; (b) the name of the producing agency or agencies and the date of production; (c) the series title if the film is part of a series; (d) a descriptive summary of the content of the film; (e) references to related films; and (f) the order number of the film if it has such a number, its running time in minutes, and an identification of color and silent films.

Following these descriptive data are several numbers in bold-face type. These code numbers refer to specific instructions for obtaining Government films which are explained on pages 306-329 of this catalog. To learn how to obtain the first film listed below, for example, turn to pages 308 and 329 where, under code numbers 11 and 41, directions are given for borrowing this film from Air Force film libraries and for purchasing it from United World Films, Inc.

AAF Comes of Age
U.S. Department of the Air Force, 1946. Development of Air Force from before Pearl Harbor to and including dropping the atom bomb on Hiroshima and Nagasaki. Actual combat scenes. (*SFP 200; 50 minutes*)
..... **11, 41**

AAF Special Delivery
U.S. Department of the Air Force, 1946. Air Force activities in war and peace; first atomic bombing of Japan and participation in first Bikini tests. (*SFP 225; 12 minutes*)
..... **11, 32, 41**

Abandon Ship
U.S. Department of the Navy, 1943. How to abandon ship; escape through oil and gas; use emergency flotation tactics; rescue others; defend self against marine life. (*MN 1145; 32 minutes*)
..... **41**

The A B C of G
U.S. Department of the Navy, 1944. Problem of high acceleration; its physical effects on pilots; effect of G on pilot in different flights; the accelerometer and the centrifuge; how to advance blackout threshold. Revision of motion picture "G and You," released through U.S. Civil Aeronautics Administration. (*MN 3446; 19 minutes, color*)
..... **7, 41**

About Faces
U.S. Public Health Service with the cooperation of American Dental Association, 1941. How Danny Smith took good care of his teeth and results of inadequate dental care. Short version of color motion picture with same title produced by American Dental Association. (*10 minutes*)
..... **26**

Acrobatic Checks. Part 6
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) Acrobatic checks for flipper turn; loop; right and left slow rolls; right chandelle; right and left precision spins; importance of staying with check range. "Joe Student" film. (*MN 1325g; 19 minutes*)
..... **7, 41**

Acrobatics
U.S. Department of the Air Force, 1943. Operation of controls and their effect on attitude of plane in animation. Fundamental techniques and errors in such maneuvers as loop, half roll and reverse, Immelman, snap roll, slow roll, and vertical reverse. (*TF 1–505; 19 minutes*)
..... **7**

Across-the-Line Starters
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 2) Theory and operation of a manually operated thermal overload switch, a magnetically operated across-the-line starter, a drum reversing switch for a three-phase motor, and a magnetic reversing switch. Animation. Supplementary filmstrip, same title, also available. (*OE 389; 15 minutes*)
..... **32, 41**

Acrylic Jacket Crown Construction
U.S. Department of the Navy, 1948. Dentistry film; title self-explanatory. (*MN 5371; 35 minutes, color*)
..... **41**

Action Highlights of the War
U.S. Coast Guard, 1946. Memorable war scenes shot by Coast Guard cameramen. (*10 minutes*)
..... **21**

Action of the Extra-Ocular Muscles
U.S. Department of the Navy, 1945. Structure and function of extra-ocular muscles; how to diagnose typical muscle defects; particularly latent paresis and paralysis. (*MN 3483; 8 minutes, color*)
..... **41**

Active Peacetime Service
U.S. Coast Guard, 1947. Coast Guard's general activities and peacetime duties; flood work; weather patrol, navigation aids, etc. (*28 minutes*)
..... **21**

Activities and Operations of the Subsistence Mobile Laboratory in the Field
U.S. Department of the Army, 1945. Title self-explanatory. (*FB216; 18 minutes*)
..... **41**

Activity for Schizophrenia
U.S. Veterans' Administration, 1951. How modern concepts of activity are applied to distinctive needs of schizophrenic patients; how corrective therapists under guidance of psychiatrists motivate patients from lower levels of activity to more socialized areas by establishing strong interpersonal relationships through the sensory appeal of intensified physical activities. (*25 minutes*)
..... **31, 32, 41**

Adding or Removing Refrigerant
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 4) How to check a domestic refrigeration system for lack of refrigerant; add refrigerant by weight; add an unmeasured amount of refrigerant; and remove refrigerant. Supplementary filmstrip, same title, also available. (*OE 441; 17 minutes*)
..... **32, 41**

Adjusting and Checking the Expansion Valve
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 7) Design and operation of the bellows type and the diaphragm type automatic expansion valve; how to adjust, check, and service the bellows type valve. Supplementary filmstrip, same title, also available. (*OE 444; 21 minutes*)
..... **32, 41**

Adjusting and Repairing the Thermo Expansion Valve
U.S. Office of Education, 1945. (Refrigeration Service Series. Commercial Systems No. 1) Theory of multiple refriger-

ation systems; how to test and adjust the thermo expansion valve, recognize symptoms of trouble in the valve, and service the valve. Supplementary filmstrip, same title, also available. (*OE 448; 12 minutes*)

..... **32, 41**

Adjusting Commercial Thermostatic Controls

U.S. Office of Education, 1945. (Refrigeration Service Series. Commercial Systems No. 3) Purpose of the thermostatic motor control; how to test and adjust it; how to adjust thermostatic two-temperature and water valves. Supplementary filmstrip, same title, also available. (*OE 450; 12 minutes*)

..... **32, 41**

Adjusting Pressure Actuated Temperature Control Devices

U.S. Office of Education, 1945. (Refrigeration Service Series. Commercial Systems No. 2) Purpose of pressure actuated temperature control devices; how to adjust the pressure actuated motor control; adjust the metering type and snap-action two-temperature valves. Supplementary filmstrip, same title, also available. (*OE 449; 15 minutes*)

..... **32, 41**

Adjustment of Harness

U.S. Department of the Air Force, 1942. (Parachutes Series) Why and how to adjust parachute harness to individual; how to fold type T.R. and T.M. (*TF 1–541; 16 minutes*)

..... **7**

Adjustments After Check Flight

U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) Causes of nose-heaviness, tail-heaviness, yawing, torque tendency, rough propeller, and ground looping; how to determine the particular cause of these troubles and make necessary adjustments. Supplementary filmstrip, same title, also available. (*OE 261; 19 minutes*)

..... **32, 41**

Administration of Military Justice and Courts-Martial

U.S. Department of the Army, 1943. Military justice and court-martial procedure through an individual case of desertion and the subsequent capture, imprisonment, and trial. (*TF 15–992; 45 minutes*)

..... **32, 41**

The Admiralty Islands

U.S. Department of the Army, 1949. (Historical Reports Series) Historical report of capture of Admiralty Islands north of New Guinea by First Cavalry Division. (*HR–A–8; 16 minutes*)

..... **12**

Adult Education

U.S. Department of the Army, 1950. How evening classes bring adults of Bryant School, Woodside, Long Island, personal satisfaction and opportunity for preprofessional or economic advancement enabling them to contribute to community life. Prepared for use in Occupied Areas. (*CAD; 22 minutes*)

..... **32, 41**

Advanced Typing: Duplicating and Manuscript

U.S. Department of the Navy, 1943. How to make a master for duplicating; correct a stencil using hectograph ribbon or carbon; use electromatic hectograph or duplicating machines; type manuscripts with footnotes. (*MN 1512d; 25 minutes*)

..... **32, 41**

Advanced Typing: Shortcuts

U.S. Department of the Navy, 1943. How to sit; arrange equipment; use various parts of typewriter; handle carbon; erase; insert words; draw horizontal and vertical lines. (*MN 1512c; 34 minutes*)

..... **32, 41**

Adventure in Sardinia

U.S. Economic Cooperation Administration, 1950. How after a successful 3-year battle to stamp out malaria, the people of Sardinia, with new health, vigor, and some Marshall Plan economic aid, look

forward to a better future; documentary of work begun by UNRRA and continued by ERLAAS, a Marshall Plan agency headed by Dr. John Logan of Rockefeller Foundation. (*22 minutes*)
..... **24**

Adventures of Junior Raindrop
U.S. Department of Agriculture, 1948. Animated cartoon supplemented with "live" action scenes of a raindrop's visit to earth; good watershed management practices; results of good and bad watershed management. (*8 minutes, color*)
..... **3, 32, 41**

Aedes Aegypti Control
U.S. Public Health Service, 1946. (Dengue and Yellow Fever Control Series) Inspection in dengue and yellow fever control; habitat and life cycle of A. Aegypti mosquito; inspector's work: equipment, inspections, and reports; their follow-up: duties of clean-up and maritime crews, and location and treatment of heavy foci. Animation. 2d ed. (*CDC–4–011.1; 18 minutes*)
..... **27**

Aerial Delivery Containers. Part 1: Loading and Dispatching
U.S. Department of the Army, 1949. Problem of aerial supply of airborne units; how to load and dispatch up-to-date types of containers used for large and small planes. (*TF 31–1525; 34 minutes*)
..... **41**

Aerial Map Reading
U.S. Department of the Navy, 1944. (Navigation Series) How to read aerial map; use landmarks and features to find position; features to observe at sea, in changing seasons, at night, when lost; how to plot course from Corpus Christi to Sabine Pass and determine ETA using landmarks. (*MN 83–m; 22 minutes*)
..... **7**

Aerial Photography. Part 1: Introduction, Aerial Camera Types
U.S. Department of the Air Force, 1940. Nature and operation of K3B, K7C and K12 aerial cameras and how to prepare the aerial camera for a mission. (*TF 1138; 9 minutes*)
..... **7**

Aerodynamics: Air Flow
U.S. Department of the Air Force, 1941. Explains turbulence and skin friction through flow of smoke over various solid shapes and forms, and angle of attack, point of stall, drag, and lift through the use of smoke streams. Continuation of "Aerodynamics: Forces Acting on an Air Foil." (*TF 1–160; 18 minutes*)
..... **7, 32, 41**

Aerodynamics: Forces Acting on an Air Foil
U.S. Department of the Air Force, 1941. Theory and principles of forces acting on airfoils; drag, angle of attack, and wing chord; development and use of wind tunnels to measure forces on a wing form; relationship between lift, drag, wing area, wind velocity, thrust, and weight. Continued in "Aerodynamics: Air Flow." (*TF 1–161; 27 minutes*)
..... **7, 32, 41**

Agriculture and Fishing in Japan
U.S. Department of the Army, 1945. Primitive cultivation and harvesting of rice, tea, barley, and other crops in Japan; inland and ocean fishing fleet and industry. (*M 1068; 27 minutes*)
..... **41**

Agua, Amiga o Enemiga
U.S. Coordinator of Inter-American Affairs, 1943. Spanish version of "Water, Friend or Enemy." Portuguese version, "A Aguas: Nosso Amigo Ouinimigo", also available. (*9 minutes, color*)
..... **37**

A Aguas: Nosso Amigo Ouinimigo
U.S. Coordinator of Inter-American Affairs, 1943. Portuguese version of "Water, Friend or Enemy." Spanish version "Agua, Amiga o Enemiga," also available. (*9 minutes, color*)
..... **37**

Aguas Turbias
U.S. Departure of Agriculture, 1940. Spanish version of "Muddy Waters." (*9 minutes*)
..... **41**

Aids and Gaits
U.S. Department of the Army, 1942. (Horsemanship Series No. 3) Various rates and types of movements of the horse, and means used to control horse and obtain these movements. (*TF 2–602; 39 minutes*)
..... **32, 41**

Air Brakes: Principles of Operation
U.S. Department of the Army, 1944. How each unit functions in relation to whole system; path of compressed air routes; operation of individual units. (*TF 9–2064; 25 minutes*)
..... **32, 41**

Air Chaplain
U.S. Department of the Air Force, 1949. Human and spiritual relationship of the Chaplain with Air Force personnel; his religious and other activities. (*SFP 234; 15 minutes*)
..... **11, 32, 41**

Air Force Landing System
U.S. Department of the Air Force, 19—. (Instrument Flying and Landing Series.) How the radio compass, runway localizer, altimeter, directional gyro, artificial horizon, and marker beacons are utilized in the Air Force Landing System. Demonstrates instrument landing procedures on the Link Trainer. (*TF 1–531; 12 minutes*)
..... **7**

Air Force Review; 7777th Honor Guard
U.S. Department of the Army, 1949. Latest planes in action and how they protect against aggression. Precision drill of Honor Guard of European command. (*AFSR 110; 19 minutes*)
..... **12, 41**

Air Masses and Fronts
U.S. Department of the Navy, 1943. (Aerology Series) Conditions producing different types of weather: tropospheres, clouds, hot and cold fronts, cyclones. (*MN 119d; 20 minutes, color*)
..... **7, 32**

Air Pattern of the Pacific
U.S. Department of the Air Force, 1945. Story of the 13th Air Force; its operations against the Japanese; strategic bombing of Guadalcanal and rest of Solomon Islands; rescues at sea; and fights against malaria. (*SFP 121; 42 minutes*)
..... **11**

Air Power
U.S. Department of the Air Force, 1949. How the Air Force played a tactical supporting role in World War I, developing and expanding into an important strategic force in World War II; continued development of air power. Animation. (*SFP 228; 18 minutes*)
..... **11, 32, 41**

Air Progress
U.S. Department of the Air Force, 1949. Air progress demonstration presented by request for Congress, the President and his cabinet, and the press; exhibits of airplane development and demonstration of Air Force planes: Thunderbolt, Mustang, Flying Fortress, Superfortress, Shooting Star, Flying Wing, and B–36. (*SFP 246; 12 minutes*)
..... **11, 32, 41**

Air Siege
U.S. Department of the Air Force, 1947. How the 15th Air Force destroyed the Ploesti oil fields with continuous bombing raids. Combat scenes of American bombers and fighters and, from captured German films, scenes of destruction of the refineries. Revision, with same title or entitled "Siege of Ploesti," released by U.S. Department of the Army. (*SFP 175; 20 minutes*)
..... **11, 32, 41**

Air Start Check Valve, Cylinder Relief Valve, and Indicator Cock
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P. Benchwork) How to disassemble and

reassemble air start check valve, cylinder relief valve and indicator cock; and test cylinder relief valve. (*MN 3691–g; 13 minutes*)
..... **41**

Aircraft Engine and Navigation Instruments: 50 Hour Inspection
U.S. Department of the Air Force, 1943. Procedures for 50-hour inspection of engine and navigation airplane instruments in B–17; applicable to many other types of aircraft. (*TF 1–799; 22 minutes*)
..... **7**

Aircraft Quarantine
U.S. Public Health Service, 1947. International air transportation increases possibility of dangerous disease vectors entering into U.S. Outlines combative measures and periodic checks. Restricted to public health personnel only. (*CDC–4–045; 15 minutes, color*)
..... **27**

Aircraft Welding
U.S. Department of the Navy, 1942. How to set up welding apparatus, light torch, make ripples and beads; turn off; care for; and put away welding apparatus; different types of flames; their effect on steel. (*MN 92; 18 minutes*)
..... **7**

Aircrewmen of the Navy
U.S. Department of the Navy, 1944. Advantages and importance of air gunnery training; operation of training program; newly approved status given aircrewmen; aircrewmen's wings; gunner's insignia; flight pay. (*MN 3550; 15 minutes*)
..... **41**

The Airplane Mechanic
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Orientation film for beginning airplane mechanics; skills and knowledges required to make satisfactory inspections and repairs; importance of thoroughness, skill, and dependability. Supplementary filmstrip, same title, also available. (*OE 278; 9 minutes*)
..... **7, 32, 41**

Airplanes: Their Metals, Fuels, and Lubricants
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1944. Boys building airplane models shown learning theory of flight, construction of plane and engine, aerodynamics, effects of drag, thrust, lift, and gravity, and maintenance of planes. (*37 minutes*)
..... **17**

Airways Flying
U.S. Department of the Air Force, 1942. (Aerial Navigation Series) Procedures for flying civil airways; operations at air traffic control center and tower; meaning of green, amber, red, and blue airways; recommended procedures when navigation instruments fail; rules for approaching and leaving airports. (Certain parts of this film are obsolete.) (*TF 1–328; 38 minutes*)
..... **7**

Alaska Sportfishing
U.S. Fish and Wildlife Service, 1947. Views of glaciers, totem poles, and other scenes in SE. Alaska; how to fish for cut-throat and Dolly Varden trout and salmon. (*15 minutes, color, silent*)
..... **20**

Alaska's Fisheries and Fur Seals
U.S. Fish and Wildlife Service, 1947. Commercial fishing for canneries of herring, King crab, and salmon on way to spawning grounds; hunting surplus seals for fur on Pribilof Islands; views of hump-backed whale. (*15 minutes, color, silent*)
..... **20**

Alaska's Game and Fur Bearers
U.S. Fish and Wildlife Service, 1947. Alaskan game birds and mammals; ptarmigan; geese; ducks; Dall's mountain sheep; mountain goats; caribou; and grizzly and great brown bears. (*15 minutes, color, silent*)
..... **20**

Alighting Gear
U.S. Department of the Air Force, 1942. (Airplane Structures Series) Alighting gear; loads exerted; principles of operation; component parts; devices that warn pilots of alighting gear's position. (*TF 1–215; 10 minutes*)
..... **7, 32, 41**

Aligning and Installing Auxiliary Machinery
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 2) How to lay out foundations for machinery installation; drill bolt holes; establish centers of holes for drilling; align machines accurately on foundations. Supplementary filmstrip, same title, also available. (*OE 96; 17 minutes*)
..... **32, 41**

Alloy Steels: A Story of Their Development
U.S. Bureau of Mines in cooperation with Climax Molybdenum Co., 1940. Historical developments 1742 through 1938, including self-hardening steel; improved heat-treatment method; new alloys; high-speed steels; SAE numbering system; tungsten and molybdenum steels; and modern plants and equipment for heat-treating and fabricating steel. (*20 minutes*)
..... **17**

Aluminum
U.S. Office of Emergency Management, 1941. Manufacture of aluminum—from transmutation of bauxite into alumina and thence into aluminum sheeting and fighting planes. Gulf Coast and Southern reduction and sheet rolling plants. (*9 minutes*)
..... **32, 41**

The Amalgam Restoration
U.S. Department of the Navy, 1948. Dentistry film; title self-explanatory. (*MN 5369–d; 12 minutes, color*)
..... **41**

The Amazon Awakens
U.S. Office of Inter-American Affairs, 1945. Amazon River Basin, its history, industrial progress, richness of natural resources and possibilities for the future. Animated sequences. (*35 minutes, color*)
..... **32, 37**

America Hails Israel's Philharmonic Orchestra
U.S. Department of State, 1950. Israel's orchestra of outstanding refugee musicians visits the United States; performance in New York under direction of Leonard Bernstein; tributes by outstanding American musicians. Released through U. S. Office of Education for educational use in the United States. (*10 minutes*)
..... **32, 41**

America Honors Her War Heroes
U.S. American Battle Monuments Commission, 1937. Dedication ceremonies at the various World War I monuments erected by the American Battle Monuments Commission in Europe. Especially for use by veterans organizations. (*90 minutes*)
..... **22**

America Sails the Seas
U.S. Department of the Army, 1947. Activities of the Merchant Marine. Revision of motion picture, same title, released by National Federation of American Shipping, 1946. (*OF 39; 26 minutes*)
..... **32, 41**

American Anniversary
U.S. Department of the Army, 1949. How a young immigrant, discovering and appreciating freedom in America, becomes a leader in his factory and community by applying the principles and responsibilities of the American system to himself. Revision of motion picture, same title, released by National Association of Manufacturers, 1942. (*OF 53; 15 minutes*)
..... **32, 41**

American First Army: Aachen to the Roer River
U.S. Department of the Army, 1948. (Historical Reports Series) First army advance from Aachen to Roer River; activities of 1st, 9th, 28th, 83rd, 104th

Divisions and 3rd Armored Division. (*HR–B–30; 25 minutes*)
..... **12, 32, 41**

American Ninth Army: Aachen to the Roer River
U.S. Department of the Army, 1948. (Historical Reports Series) 9th Army activities from Aachen to Roer River and capture of all towns west of river. (*HR–B–29; 31 minutes*)
..... **12, 32, 41**

Americans All
U.S. Coordinator of Inter-American Affairs, 1941. History, geography, resources, occupations, industries, sports, education, science, and customs of Central and South America; historical background in animated maps. (*25 minutes*)
..... **32, 41**

Amperes, Volts, and Ohms
U.S. Department of the Navy, 1945. (Radio Technician Training Series. Elementary Electricity) Amperes, volts, and ohms; their inter-relationship and measurement by instruments. Supplementary filmstrip, same title, also available. (*MN 1540–u; 8 minutes*)
..... **7, 41**

Anchors Aweigh
U.S. Office of War Information, Domestic Branch, 1942. Navy song sung off screen while scenes of naval operations at sea are shown. Words are superimposed upon background at close of film. (*3 minutes*)
..... **32, 41**

Anopheles Census: A Basic Field Procedure in Setting Up Malaria Control Projects
U.S. Public Health Service, 1944. (Malaria Control Series) Entomologist surveys prevalence of malaria-carrying mosquitoes of area and suitable State sponsored control program is initiated. Results are evaluated; defects investigated and remedied. Maps and charts. (*CDC–4–025; 20 minutes*)
..... **27**

Antarctic Expedition
U.S. Department of the Army, 1947. How Operation Highjump led by Rear Admiral Byrd explored Little America, mapping vast areas, discovering new peaks and mountains, and testing cold weather equipment. (*MA 2431–cg; 18 minutes*)
..... **14**

Aphasia. Part 1: Diagnosis of Aphasia
U.S. Veterans' Administration, 1950. Anatomy, physiology, and principles of the disease. For professional personnel and medical students. (*20 minutes*)
..... **31, 41**

Aphasia. Part 2: Testing and Individual Therapy for Aphasia
U.S. Veterans' Administration, 1950. How to test for the disease. For professional personnel and medical students. (*20 minutes*)
..... **31, 41**

Aphasia. Part 3: Social Adjustment for the Aphasic
U.S. Veterans' Administration, 1950. Therapeutic treatment for the disease. For professional personnel and medical students. (*20 minutes*)
..... **31, 41**

The Appian Way
U.S. Economic Cooperation Administration, 1950. Camera trip along Appian Way, former central artery of Imperial Rome, linking Adriatic to the Tyrrhenian Sea, shows E.R.P. aid helping Italians construct a new and better Italy. (*10 minutes*)
..... **24**

Application of Pascal's Law. Part 1
U.S. Department of the Navy, 1943. (Elementary Hydraulics Series) Reviews Pascal's law; how work is done by means of a hydraulic system and the measurement of work; input and output pistons and system in action. (*MN 1730–c; 12 minutes*)
..... **7, 41**

Application of Pascal's Law. Part 2
U.S. Department of the Navy, 1943. (Elementary Hydraulics Series) Demonstrates Pascal's system; explains principles of hydraulic brakes and hydraulic jack. (*MN 1730–d; 14 minutes*)
..... **7, 41**

Appointment in Tokyo
U.S. Department of the Army, 1945. (Campaign Reports Series) General MacArthur's operations from the fall of Corregidor to the American conquest of the Philippines and Japanese surrender ceremonies aboard USS "Missouri" in Tokyo Bay. (*CR 4; 55 minutes*)
..... **32, 41**

Arc Welding
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1946. (How To Weld Aluminum Series) Aluminum welding processes; metal arc, carbon arc, and atomic hydrogen; proper equipment and personnel protection. (*10 minutes*)
.... **17**

Arctic Engine Oil
U.S. Department of the Army, 1948. How arctic engine oil was tested at Fort Churchill, Canada, at extremely low temperature. How it functions and the need and procedure for oil level checks every 2 operating hours. (*FB 221; 7 minutes*)
..... **41**

Arctic Igloo; Something About a Soldier
U.S. Department of the Army, 1948. How a three-man igloo is constructed in 3 hours by three men using three knives. Dignity, admirable conduct, and good appearance as a goal for every soldier. "Arctic Igloo" released also as "Construction of Arctic Igloo." (*AFSR 95; 18 minutes*)
..... **41**

Arizona and Its Natural Resources
U.S. Bureau of Mines in cooperation with Phelps Dodge Corp., 1948. Flash scenes typical of State; principal mining districts and agricultural areas; gold, copper, silver, quicksilver, and gypsum mining; results of irrigation in arid lands; and panoramic views in color. (*39 minutes, b&w with color sequences*)
..... **17**

Armed Forces Education: Take Time For Tomorrow
U.S. Department of the Navy, 1949. Educational opportunities available to all military personnel while in service, from illiteracy to college level; off-duty study, classroom attendance, and correspondence courses. Revision of "Take Time For Tomorrow" released by U.S. Department of the Army. (*MN 6649; 12 minutes*)
..... **14, 41**

Armed Forces of the USA
U.S. Department of Defense, 1950. Place and function of Armed Forces in U.S. governmental organizational structure. Animation and live photography. (*AFIF 9; 23 minutes*)
..... **12, 32, 41**

Army Air Forces: Pacific
U.S. Department of the Air Force, 1946. Gen. H. H. Arnold's plea for strong postwar Air Force; how American wartime supremacy was result of merger of aviation, naval, and ground force power; air war over Wake, Philippines, Burma, Saipan, Okinawa, and Japan. Views of Ernie Pyle's grave; and atomic bombing. (*15 minutes*)
..... **11**

The Army Nurse
U.S. Department of the Army, 1945. Duties and work of Army nurse near battle lines, in field and evacuation hospitals, and on airplanes and vessels. (*M 1173; 13 minutes*)
..... **32, 41**

The Army Railroad
U.S. Department of the Army, 1943. How railroad operating battalions of Engineers at Camp Claiborne, La., trained for building and maintaining railroad transportation overseas for fast moving offensives. (*FB 71; 12 minutes*)
..... **41**

Army Sports
U.S. Department of the Army, 1950. How Army sports program stimulates

physical and mental well-being. (*M 7666; 10 minutes*)
..... 12

Army-Navy Football Game 1948
U.S. Department of the Navy, 1948. Title self-explanatory. (*MN 6749; 35 minutes; color*)
..... 14

Arrest and Search of Persons
U.S. Department of the Army, 1948. Procedures and precautions in the arrest, search, handcuffing, and tying of persons. Cases involving both minor and major crimes. Revision. (*TF 19-1486; 41 minutes*)
..... 41

Artificial Respiration
U.S. Department of the Navy, 1943. (Personnel Damage Control Series) How to use artificial respiration for drowning, asphyxiation, or electrical shock; battle station first aid. Revision, same title, also available. (*MN 836-e; 9 minutes, color*)
..... 7, 41

Artificial Respiration
U.S. Department of the Navy, 1947. (Personnel Damage Control Series) How to treat drowning, electrical shock, and smoke cases with artificial respiration. Breathing process illustrated by animation. Revision. (*MN 6466-e; 7 minutes*)
..... 41

Asiatic Schistosomiasis
U.S. Department of the Navy, 1946. Cause and effects of schistosomiasis; preventive and control measures; life cycle of infectious body. (*MN 5028; 23 minutes, color*)
..... 41

Assembling in a Jig: Drilling and Riveting
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 2) Drilling, burring, dimpling, and riveting an aircraft sheet metal assembly. Supplementary filmstrip, same title, also available. (*OE 137; 21 minutes*)
..... 32, 41

Assembling in a Jig: Fitting and Lining Up
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 1) How aircraft sheet metal parts are assembled in a precision assembly jig; how to use an awl for lining up; use skin fasteners; and correct misaligned holes. Supplementary filmstrip, same title, also available. (*OE 136; 16 minutes*)
..... 32, 41

Assembly of Alighting Gear Shock Strut
U.S. Department of the Air Force, 1942. (Aircraft Alighting Gear Series) How to assemble main alighting gear shock strut of P-38 before installing it on plane; how to pack. Entitled also "Assembling of the Main Alighting Gear Shock Strut." (*TF 1-519; 20 minutes*)
..... 7

Assignment Germany
U.S. Department of the Army, 1950. Soldier's role in German physical, political, and economic reconstruction in various assignments with Constabulary, machine shops, CID, and Engineers and in recreational activities with German children. (*M 7591; 14 minutes*)
..... 12, 32, 41

Assignment Home
U.S. Department of the Navy, 1945. (Combat Fatigue Series) Stories of three Navy neuropsychiatric discharges, one returning to a job, one going back to school and the other without plans, show patients problems of civilian life with suggestions for meeting different situations. To develop desire for adjustment in the neuropsychiatric patient. (*MN 3428-d; 25 minutes*)
..... 41

The Astronomical Triangle. Parts 1 and 2
U.S. Department of the Navy, 1942. (Navigation Series) How the astronomical triangle is formed and its use in determining the position of ships on the

earth's surface. Animation. College level. (*MN 83-d; 37 minutes*)
..... 41

Atacama Desert
U.S. Coordinator of Inter-American Affairs, 1943. Life and Industry in the hot dry Atacama Desert of northern Chile; nitrate deposits for which Chile is famous; study of the life of the people of this region. (*17 minutes*)
..... 32, 41

Atomic Medical Cases: Japan, World War II
U.S. Department of the Army, 1949. (Professional Medical Film Series) Medical report on physical destruction and casualty effects to populace of Hiroshima and Nagasaki following 1945 atomic bomb explosions. (*PMF 5143; 37 minutes*)
..... 41

The Atom Strikes
U.S. Department of the Army, 1946. First experimental blast in New Mexico; aerial views of Hiroshima and Nagasaki bombings and closeups of devastation. (*M 1235; 31 minutes*)
..... 32, 41

Atomic Bomb Test: Bikini Island
U.S. Department of the Navy, 1946. Documentary film on the atomic test at Bikini compiled by editors of Paramount News. (*MN 5352; 18 minutes*)
..... 14

Attaching and Aligning Wings
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) How to inspect a damaged wing; remove the damaged wing; attach a new wing; level the airplane and align the wing; and inspect the finished job. Supplementary filmstrip, same title, also available. (*OE 258; 20 minutes*)
..... 32, 41

Attack! The Battle for New Britain
U.S. Department of the Army, 1944. Attacks on Arawae and Cape Gloucester on New Britain from plan to final victory. (*M 1041; 47 minutes*)
..... 32, 41

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Attitudes of Flight. Part 1
U.S. Department of the Navy, 1945. (Primary Flight Training Series) Performance of climbing attitude, glide, straight and level flight, gliding turn; flight procedures for each attitude; "the feel" of the operations. Stop motion clarifies correct attitude angles. Special film for Naval Air Basic Training Command Activities. (*MN 3474-f; 15 minutes*)
..... 7, 41

Attitudes of Flight. Part 2
U.S. Department of the Navy, 1945. (Primary Flight Training Series) Performance of 180 degree power on approach, out of wind take-offs and landings, stall and recovery from stalls; flight procedures for each attitude; "the feel" of operations. Stop motion clarifies correct attitude angles. Special film for Naval Air Basic Training Command Activities. (*MN 3474-g; 12 minutes*)
..... 7, 41

Audio Oscillator Operation
U.S. Department of the Navy, 1945. (Radio Technician Training Series) Operation and use of audio oscillator; performance shown by checking an amplifier with audio oscillator and "A" scope; all knob turning explained. (*MN 1540-r; 9 minutes*)
..... 7, 41

Audio Visual Aids to Learning
U.S. Department of the Army, 1950. Documents the approved and complete utilization of materials from a typical American audio-visual aids center. Prepared for use in Occupied Areas. (*11 minutes*)
..... 41

Australorbis Glabratus, Vector of Schistosoma Mansoni
U.S. Public Health Service, 1947. (Schistosomiasis Series) Aquarium scenes illustrate life cycle of A. glabratus, the planorbid snail which is the intermediate host and principal transmitting species in tropical America of S. Mansoni. (*CDC-4-066; 3 minutes*)
..... 27

Automobile Lubrication
U.S. Bureau of Mines in cooperation with Standard Oil Co. (Indiana), 1931. Research to develop and test suitable lubricants; when to lubricate motor; effect on car of harmful conditions (in animation); how to remove old lubricant; special lubricants for hypoid gears. (*15 minutes, silent*)
..... **17**

Auxiliaries
U.S. Department of the Navy, 1944. (Fireroom Operation Series) Operations involved in starting steam turbine-driven pumps, placing oil cooler in operation, and securing a centrifugal pump. (*MN 2356-c; 21 minutes*)
..... **41**

Avalanches to Order
U.S. Department of Agriculture, 1950. How U.S. Forest Service Snow Rangers, National Ski Patrol, and Winter Sports Association cooperate in predicting and controlling avalanches. (*17 minutes, color; also b&w*)
..... **3, 32, 41**

Aviation Machinists Mate: Parachute Responsibilities
U.S. Department of the Navy, 1944. Title self-explanatory. (*MN 1970; 13 minutes*)
..... **41**

A'Wéé Binaltsoos Beedáhazingo Adenchsin
U.S. Public Health Service and U.S. Bureau of Indian Affairs, 1947. How a birth certificate helps in school, selective service registration, collection of soldier's family benefit checks, and obtaining old-age assistance; hardships caused by lack of birth certificate; life and activities of Navajos. *Navajo language film.* (*18 minutes, color*)
..... **26**

The Bailey Bridge in Combat
U.S. Department of the Army, 1945. Different types and methods of Bailey bridge construction actually used in combat. (*FB 185; 13 minutes*)
..... **41**

Banking on the Land
U.S. Department of Agriculture, 1946. Development of cooperative farm mortgage credit system recalled by charter member of local national farm loan association; service of long-term loans to farmers. (*24 minutes, color*)
..... **2, 32, 41**

Bar Work: Magnesium. Part 1: Setting Up Bar Mechanism and Roller Turner
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 5) How to make a rough sizing cut for the roller turner; set the tool in the roller turner for a finish size; set the automatic stops; and control chip condition. Supplementary filmstrip, same title, also available. (*OE 216; 18 minutes*)
..... **32, 41**

Bar Work: Magnesium. Part 2: Setting Up Multiple Roller Turner and Turning a Taper
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 6) How to set up a multiple roller turner; center-drill the work so that it can be supported with a center; set up and operate carriage taper attachment. Supplementary filmstrip, same title, also available. (*OE 217; 17 minutes*)
..... **32, 41**

Bar Work: Magnesium. Part 3: Necking and Threading by Use of Attachment and by Die Head
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 7) How to set the necking and chamfering tools; cut ¾ inch, 10 pitch thread with tangent die head; and cut off the finished piece. Supplementary filmstrip, same title, also available. (*OE 218; 23 minutes*)
..... **32, 41**

Bars and Structural Shapes
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940. (The Making and Shaping of Steel

Series) Ingot in blooming and rod mills; making bars, beams, and angles; use of sheet-steel piling in dams; use of steel in stadium, Trylon and Perisphere, Radio City and San Francisco bridge. (*15 minutes, silent*)
..... **17**

Bars, Punches, and Drifts
U.S. Department of the Army, 1943. (Care and Use of Hand Tools Series No. 5) Bars, punches, and drifts; proper uses; common misuses. (*TF 9–2030; 14 minutes*)
..... **32, 41**

The Basic Camera
U.S. Department of the Navy, 1948. (Fundamentals of Photography Series) Fundamentals of still- and motion picture photography. (*MN 5383; 15 minutes*)
..... **32, 41**

Basic Electricity
U.S. Department of the Air Force in cooperation with Minneapolis-Honeywell Regulator Co., 1948. Voltage, current, resistance, magnetic fields, induction, primary and secondary coils, series and parallel circuits, and other fundamentals of electricity. Animated cartoon. Continued in "Basic Electronics". (*AF 213–a; 20 minutes, color*)
..... **11, 32, 41**

Basic Electronics
U.S. Department of the Air Force in cooperation with Minneapolis-Honeywell Regulator Co., 1948. Atoms and electrons, vacuum tube, cathode, rectifier tube, amplifier tube, grid, and bridge circuits. Animated cartoon. Continuation of "Basic Electricity". (*AF 213–b; 17 minutes, color*)
..... **11, 32, 41**

Basic Hydraulics
U.S. Department of the Navy, 1944. Physical laws, mechanical advantages, and applications of basic hydraulics. Three basic units of hydraulic system: pump, pipe, and cylinder. (*MN 5027–a; 9 minutes, color*)
..... **7, 32, 41**

Basic Net Mending
U.S. Fish and Wildlife Service, 1948. (Commercial Fisheries Series No. 4) How to mend nets; basic procedures and equipment. For fishermen and handicraft groups. (*18 minutes, color*)
..... **20, 32, 41**

Basic Principles of Frequency Modulation
U.S. Department of the Army, 1944. Describes what "FM" is in radio communication, how it is used, and what its advantages and limitations are. Diagrammed comparison of FM and AM transmission. (*TF 11–2069; 31 minutes*)
..... **32, 41**

Basic Principles of the Automatic Pilot
U.S. Department of the Air Force, 1942. (The Automatic Pilot Series) How automatic actuation of control surfaces through air pick-offs, diaphragms, balanced oil valves, servo cylinders and follow-up system maintain altitude and heading. (*TF 1–507; 10 minutes*)
..... **7**

Basic Sanitation
U.S. Public Health Service, 1950. (Community Fly Control Series) Procedures in urban and rural basic sanitation programs for the elimination of all fly breeding sources. (*CDC–4–090; 9 minutes, color*)
..... **27, 41**

Basic Telephony
U.S. Department of the Army, 1949. Basic principles involved in telephones and telephone circuits. (*TF 11–1553; 20 minutes*)
..... **41**

Basic Typing: Machine Operation
U.S. Department of the Navy, 1943. Reviews various techniques for gaining speed and accuracy; nomenclature of typewriters; locations and use of various parts. (*MN 1512–b; 28 minutes*)
..... **32, 41**

Basic Typing: Methods
U.S. Department of the Navy, 1943. Reviews fundamental techniques of typing,

including the posture of the operator at various makes of typewriters. (*MN 1512–a; 30 minutes*)
..... **32, 41**

Bathing the Bed Patient
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to make bed without disturbing patient; bathe patient with comfort. (*MN 1511–c; 19 minutes*)
..... **41**

Bathing the Patient: Home Care
U.S. Office of Education, 1945. (Nursing Series) Preparation of the equipment; how to bathe the arms, legs, and body; give a back massage and alcohol rub; and brush the patient's teeth and shave him. Supplementary filmstrip, same title, also available. (*24 minutes*)
..... **32, 41**

The Battery, Ignition, and Electrical System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 2) How to check and service the battery; check the starting motor, generator, lighting circuit, electrical instruments, and ignition system. Supplementary filmstrip, same title, also available. (*OE 462; 26 minutes*)
..... **32, 41**

Battle for the Marianas
U.S. Marine Corps, 1944. Army, Navy, Marine, and Coast Guard assault on Saipan; amphibious operations on Guam; push inward to Aslito Airfield; shelling of Tinian; battle at Garapan. (*18 minutes, color*)
..... **15**

Battle for Time
U.S. Department of the Army, 1950. Activities of United Nations Forces in Korea, July 7 through August 8, 1950. (*CB 101; 13 minutes*)
..... **12, 32, 41**

The Battle of Britain
U.S. Department of the Army, 1943. (Why We Fight Series) How Britain stood alone against the Axis; how the Nazi Air Force smashed at her cities and how she fought back and finally stopped Hitler. Scenes of night and day bombings, aerial dog fights and "great fire blitz." (*OF 4; 54 minutes*)
..... **32, 41**

Battle of the Peace
U.S. Department of the Army, 1945. U.S. Military Government in Germany. Methods in rebuilding and rehabilitating German cities. (*ANSM 66; 19 minutes*)
..... **32, 41**

Battle Wreckage
U.S. Department of the Army, 1944. Battlefield casualties in tanks, guns, trucks, and other weapons. (*WF 39; 10 minutes*)
..... **41**

Battling Brucellosis
U.S. Department of Agriculture, 1946. Proper methods of ridding a dairy herd of brucellosis: testing all cows, slaughtering diseased cattle, vaccination of calves, and thorough cleaning of barns and yards. Animated diagrams of physiology of disease. (*20 minutes, color*)
..... **32**

BC-1 Airplane
U.S. Department of the Air Force, 1941. Airplane Hydraulic Systems Series No. 1) Basic principles of hydraulics; hydraulic systems as applied to retractable landing gear, brakes, and variable pitch propeller; pumps, reservoirs, special valves, and operating levers diagrammed; specific application to BC–1 plane. (*TF 1–174; 15 minutes*)
..... **7**

Beach Approaches
U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How to taxi to beach in various winds; duties of beachmaster and beach crew. (*MN 1338–f; 41 minutes*)
..... **41**

Beachhead Secured
U.S. Department of the Navy, 1950. Navy participation in one of largest peacetime

airborne-amphibious exercises of Armed Forces; how Navy transported, landed and protected combat troops in amphibious assault on Vieques. (*MN 6707; 14 minutes*)
..... 14, 41

Bear River Refuge
U.S. Fish and Wildlife Service, 1947. Views of Bear River Refuge, at north end of Great Salt Lake, Utah, and its birds; water control and other refuge operations. (*35 minutes, color, silent*)
..... 20

Bearing Disassembly and Inspection
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series) How to disassemble main bearings; inspect; take readings on bearing shell; handle the parts. (*MN 2364–c; 17 minutes*)
..... 41

Bearing Reassembly
U.S. Department of the Navy, 1943. (Cooper Bessemer Diesel Engine Maintenance Series) How to roll bearing shell back into place, install cap, wedge blocks, and wedge shoe; and connect lub oil line. (*MN 2364–d; 11 minutes*)
..... 41

Bearing Removal and Inspection: 8-268A Engine
U.S. Department of the Navy, 1943. (Progressive Maintenance Diesel Propulsion Engine Series) How to disassemble main bearing; inspect, clean, and replace bearing shells; and reassemble bearing. (*MN 209–d; 17 minutes*)
..... 41

Bearings
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) Maintenance of bearings; how to remove main bearings, inspect and install bearing shells. (*MN 3707–b; 10 minutes*)
..... 41

Bearings
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Disassembly) How to remove, inspect, and install main bearing cap, lower bearing shell, and upper bearing shell. (*MN 3708–c; 9 minutes*)
..... 41

Bearings, Single Line of Position, and Fixes
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Bearing, line of position, circle of equal altitude, fix and intercept, plotting of assumed position, and intercept. (*TF 1–544; 19 minutes*)
..... 7, 32, 41

The Beaver-Selja Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) *Beaver-Selja* collision off California; signal exchange; action after crash was imminent; Supreme Court decision. (*MN 202–y; 5 minutes*)
..... 41

Beds and Appliances
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to make and adjust bed and bunk; raise patient's feet and head; keep cover weight off feet; use fracture board. (*MN 1511–d; 10 minutes*)
..... 41

Before You Fly
U.S. Department of the Navy, 1945. (Primary Flight Training Series) Preflight inspection; starting and stopping procedures; care of parachutes; inherent dangers of not following instructions shown by cocksure, know-it-all cadet while average student demonstrates correct procedures. (*MN 3474–b; 35 minutes*)
..... 7, 41

Belgium: A Year of Progress
U.S. Economic Cooperation Administration, 1950. Brussels by night; Brussels Airport extended; new Brussels rail link; Antwerp petrol harbor; Belgium rebuilds her roads; helicopter airmail service; Prof. Henderson helps Belgian dairymen.

Special edition of "ERP in Action." (*10 minutes*)
..... **24**

Belo Horizonte
U.S. Coordinator of Inter-American Affairs in cooperation with the U.S. Office of Strategic Services, 1944. Story of Brazil's "planned city with a plan"; how complete plans for its building were drawn up before a single house or street was built. (*18 minutes*)
..... **32, 41**

Bench Work: 8-268A Engine
U.S. Department of the Navy, 1943. (Progressive Maintenance Diesel Propulsion Engine Series) How to check parts for cracks; use ring expansion tool; insert wrist pin bearings; reassemble piston; replace needles in eye of connecting rod. (*MN 209–c; 16 minutes*)
..... **41**

Benchwork. Part 1
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to remove valves, over speed trip assembly, transfer block and check valve. (*MN 3707–e; 12 minutes*)
..... **41**

Benchwork. Part 2
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to clean and inspect the head; resurface valve seats, and lapping valves; "miking" of guides and valves. (*MN 3707–f; 19 minutes*)
..... **41**

Benchwork. Part 3
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to install valves; over speed trip; transfer block; test valve and relief valve assembly; and start air starting check valve. (*MN 3707–g; 12 minutes*)
..... **41**

Benchwork. Part 4
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to disassemble piston assembly; inspect and "mike" the piston, wrist pin, and wrist pin bearings; check ring clearance; reassemble piston and rod; and inspect, clean and "mike" liner. (*MN 3707–h; 26 minutes*)
..... **41**

Bending Copper Tubing to a Wire Template
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 1) How tubing is annealed, cooled, and filled with rosin; how a wire template is made; how bends marked on copper tubing are made and checked. Supplementary filmstrip, same title, also available. (*OE 102; 22 minutes*)
..... **32, 41**

Bending Oak Techniques
U.S. Department of the Navy, 1950. Technique of bending oak billets of Navy motor launch hulls; procedure prior to bending; bending machines; recommended bending procedures; safety precautions; storing bent billets. (*FN 6734; 17 minutes*)
..... **41**

Bending to a Cleat
U.S. Coast Guard, 1943. How cleat is used in mooring operations and how to tie. (*3 minutes*)
..... **41**

Best By Test
U.S. Department of the Army, 1948. Choice of foods, tastefulness, dietary value, and method of service in the Army. (*AFSR 96; 21 minutes*)
..... **41**

Better Eating
U.S. Institute of Inter-American Affairs, 1947. How to grow a variety of vegetables in a home garden with a minimum of work and cost. How to prepare ground, plant, and care for vegetables. Portuguese version "Hortas," and Spanish version "La Hortaliza en Casa" also available. (*7 minutes, color*)
..... **32, 37**

Better Farming: More Milk
U.S. Institute of Inter-American Affairs, 1947. How cleanliness on a dairy farm

where primitive conditions prevail improves the quantity and quality of milk. Portuguese version "Produza Mais Leite" and Spanish version "Mas Leche" also available. (*10 minutes, color*)
..... **32, 37**

A Better Tomorrow
U.S. Office of War Information, Overseas Branch, 1945. Children and youth at school in New York City—drawing, reading, and morning milk in elementary school class; boy receiving vocational guidance from high school principal; social science class studying fire prevention in school community. (*24 minutes*)
..... **32, 41**

The Bevel Protractor
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 7) Principles of the vernier bevel protractor; how to set and read the bevel protractor; use the protractor to lay out angular work and check angles. Supplementary filmstrip, same title, also available. (*OE 50; 15 minutes*)
..... **32, 41**

Beveling, Grooving, and Rounding
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to groove, bevel, and round for flat and curved surfaces; bevel edges of all optical surfaces to prevent chipping; adapt surface grinder for grooving; two common types of rounding machines. (*MN 2449–g; 28 minutes*)
..... **41**

Beveling, Mitering, Rabbeting, and Dadoing
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 2) How to cut a bevel with tilted fence; set a miter gage; use a stopblock in mitering; set the fence and blade for cutting rabbets; install and use a dado head. Supplementary filmstrip, same title, also available. (*OE 307; 19 minutes*)
..... **32, 41**

Beveling, Stop Chamfering, and Tapering Square Stock
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 2) How to set fence for bevel cutting; adjust the proper amount of cut; cut chamfer; set the infeed and outfeed tables and stop blocks; cut tapers. Supplementary filmstrip, same title, also available. (*OE 303; 20 minutes*)
..... **32, 41**

The Big Wheel
U.S. Department of the Army, 1950. History of 35th Infantry Division. (*M 7723; 17 minutes*)
..... **32, 41**

Bikini: Radiological Laboratory
U.S. Atomic Energy Commission, 1950. How a group from the University of Washington made a survey of the effect of radioactivity on plant and marine life at Bikini three and one-half years after the Able and Baker tests. (*22 minutes, color*)
..... **23, 41**

Birds of Woody Island
U.S. Fish and Wildlife Service, 1940. Life and habits of common terns, ring-billed and California gulls, double-crested cormorants and white pelicans in Bowdoin (Montana) National Wildlife Refuge. Scenes of young being fed by regurgitation. (*15 minutes, color, silent*)
..... **20**

The Birth of a Giant
U.S. Department of the Army, 1950. Construction of McNary Dam on Columbia River: importance of providing flood control, navigation, and hydroelectric power. (*28 minutes, color*)
..... **13**

Birth of the B-29
U.S. Department of the Army, 1944. The story of the development of the famous B–29 Superfortress. (*WF 30; 21 minutes*)
..... **32, 41**

Black Bullets
U.S. Department of the Army, 1945. Captured German and Japanese footage shows how enemy mined coal with slave labor. Importance of miner in war strategy of armies that move on coal-dependent vehicles, planes, and ships. (*WF 55; 14 minutes*)
..... 41

Black Marketing
U.S. Office of War Information, Domestic Branch, 1943. Actual, typical case from the files of the Office of Price Administration; how the black market operates; and, how it is defeated by public cooperation with OPA and local law-enforcement officials. (*11 minutes*)
..... 32, 41

The Blacksmith: Calculating and Bending Rings and Links
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Elementary shipsmithing including linear calculation of stock, forming of rings and links, forge welding and use of common blacksmith's tools. (*MN 2350–a; 21 minutes*)
..... 41

The Blacksmith: Calculating and Forging a Deck Socket Wrench
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) How to forge a deck-socket wrench; read blueprint, select stock, forge and finish. Diagrams. (*MN 2350–b; 21 minutes*)
..... 41

Blanking and Piercing
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1944. (How to Form Aluminum Series) Blanking, piercing, and perforating techniques in scenes and animated drawings; Guerin or rubber-pad method; and the use and care of the tools and materials employed. (*16 minutes*)
..... 17

Blanking Sheet Metal on the Squaring Shear
U.S. Office of Education, 1943. (Aircraft Work Series. Blanking Sheet Metal Work No. 1) How to lay out tapered blanks on an aluminum sheet; use holddowns and treadle; check blanks and trim blanks. Supplementary filmstrip, same title, also available. (*OE 130; 15 minutes*)
..... 32, 41

Blanking Sheet Metal with Hand Snips
U.S. Office of Education, 1943. (Aircraft Work Series. Blanking Sheet Metal No. 2) How to cut along a straight line; cut an outside circle, a notch, an inside line; and remove burrs left by cutting. Supplementary filmstrip, same title, also available. (*OE 131; 18 minutes*)
..... 32, 41

Blanking with Rotary and High Speed Shears
U.S. Office of Education, 1945. (Aircraft Work Series. Blanking Sheet Metal No. 4) How to set up rotary and high-speed shears; make test cuts; and operate the shears. Supplementary filmstrip, same title, also available. (*OE 292; 16 minutes*)
..... 32, 41

Blanking with the Swing Arm Router
U.S. Office of Education, 1944. (Aircraft Work Series. Blanking Sheet Metal No. 3) How to operate a swing-arm router; set up the work and template for routing; change router bits; rout internal and external contours. Supplementary filmstrip, same title, also available. (*OE 132; 17 minutes*)
..... 32, 41

Blessings of Grass
U.S. Department of Agriculture, 1940. Range management in western National Forests; perpetuating grazing lands by protecting them from overuse to insure future of livestock and grazing industry. (*21 minutes*)
..... 3, 32

Blind Riveting
U.S. Office of Education, 1945. (Aircraft Work Series. Assembling and Riveting No. 8) Necessity for blind riveting; how to rivet parts that are completely blind; use special tools and rivets in blind

riveting jobs. Supplementary filmstrip, same title, also available. (*OE 294; 15 minutes*)
..... **32, 41**

Blister Rust: Enemy of the Pines
U.S. Department of Agriculture, 1948. (White Pine Blister Rust Series) Many varied uses of pines; life cycle of white pine blister rust (fungus disease); and effective control measures to stop its spread. (*15 minutes, color*)
..... **1, 32, 41**

Block That Termite
U.S. Department of Agriculture, 1940. Construction procedures to prevent ravages of termites in new buildings; measures to prevent further damage in infested buildings. (*20 minutes*)
..... **32, 41**

Blue Lupine
U.S. Department of Agriculture, 1947. How to plant, harvest, clean, store, and care for seed of blue lupine, a nitrogen-producing cover crop used in the South. (*15 minutes, color*)
..... **4, 32, 41**

Blue Ribbon
U.S. Department of State, 1948. Family life and activities of rural youth; 4–H Club activities and county agricultural fair; "blue ribbon" awards for livestock, farm produce, and homemaking projects. Released through U.S. Office of Education for educational use in the United States. (*22 minutes*)
..... **32, 41**

The Bluejacket's Personal Hygiene
U.S. Department of the Navy, 1943. How to care for feet, teeth, hands, fingernails, hair, eyes, ears and posture; prevent communicable diseases; avoid colds. (*MN 1509; 18 minutes*)
..... **41**

BMEP
U.S. Department of the Navy, 1943. (Diesel Engine Governors Series. Marquette Governor No. 3) How governor operates for normal and low speeds; how limiter functions where fuel is on and off; how it reduces fuel supply to overloaded engine; and how mechanism goes out of position when full operation is completed. Animated diagrams. (*MN 2598–c; 10 minutes*)
..... **41**

Bob Marshall Comes Home
U.S. Department of Agriculture, 1946. Rural electrification today; how veteran obtains electricity for self and neighbors from REA Co-op. (*21 minutes*)
..... **32, 41**

Bomb Blast and Burns
U.S. Department of the Navy, 1943. (Personnel Damage Control Series) How explosion fragments cause serious burns, wounds, and internal injuries; how 1st, 2nd, and 3rd degree burns affect layers of the skin. Animation. Battle station first aid. Revision, "Heat, Exhaustion, Sunstroke and Burns," also available. (*MN 836–c; 13 minutes, color*)
..... **41**

Bomber
U.S. Office of Emergency Management, 1941. The manufacture, speed, and power as a combat plane of the B–26 Army medium bomber. (*10 minutes*)
..... **32, 41**

Bombs Over Tokyo
U.S. Marine Corps, 1947. Advancement of naval and air bases by Marine Corps amphibious operations in the Pacific for operation of B–29 planes in Pacific. (*18 minutes*)
..... **15**

Books for Everyone
U.S. Department of the Army, 1949. How the manufacture and distribution of millions of paper-bound books in America makes every type of publication easily available to all for education or entertainment. (*CAD 137; 11 minutes*)
..... **32, 41**

Boring Holes with Offset Boring Head
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 7) How to mount

the workpiece on the milling machine table; bore with an offset boring head; and use plug gages and a micrometer to check the center distance between the holes. Supplementary filmstrip, same title, also available. (*OE 209; 28 minutes*)
..... **32, 41**

Boring to Close Tolerances
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 11) How to mount and adjust the brass valve bonnet in a ring fixture; rough and finish-face the hub; rough and finish-bore the hole to close tolerances; prevent bellmouth when boring a hole; use a plug gage; and set inside calipers for close measurement. Supplementary filmstrip, same title, also available. Portuguese version, "Perfuracao Micrométrica" and Spanish version, "Perforación Micrométrica," also available (*OE 59; 17 minutes*)
..... **32, 41**

Bougainville
U.S. Department of the Army, 1948. (Historical Reports Series) Landing operation and subsequent capture of Bougainville in 1943 by American Forces, the 37th Division, 14th Corps, and 3rd Marine Division. (*HR–A–5; 9 minutes*)
..... **12, 32, 41**

The Bounteous Earth
U.S. Coordinator of Inter-American Affairs, 1941. (Mexican Fiestas Series No. 2) Two fiestas closely related to the agricultural life of the Mexicans: blessing of the animals on Candlemas Day in Cholula; harvest dances in Tehuantepec. (*9 minutes, color*)
..... **32, 41**

The Bowline
U.S. Coast Guard, 1943. How to bend a bowline. (*4 minutes*)
..... **41**

Brake Adjustment: Hayes and Goodyear Brakes
U.S. Department of the Air Force, 1942. (Airplane Hydraulic Brakes Series) Need for brake adjustment; adjustment of bearings and shoes with double and single Hayes shoe brake and adjustment of expander tube; adjustment and final testing of Goodyear disc type brake. (*TF 1–307; 17 minutes*)
..... **7**

Brazil
U.S. Coordinator of Inter-American Affairs, 1943. (South American Medley Series No. 4) Views of Rio de Janeiro, Sao Paulo, and Santos, Brazil's coffee center; Brazil's natural resources. (*10 minutes, color*)
..... **32, 41**

Brazil Gets the News
U.S. Coordinator of Inter-American Affairs with the cooperation of the Brazil Tourist Information Bureau, 1942. Publication of a Sao Paulo newspaper from the receipt of a dispatch to the sale of the paper on the street. (*10 minutes*)
..... **32, 41**

Brazilian Quartz Goes to War
U.S. Coordinator of Inter-American Affairs, 1943. Mining of quartz; its function in the manufacture of radio equipment. (*10 minutes*)
..... **32, 41**

Brazil's Fishing School
U.S. Coordinator of Inter-American Affairs, 1943. Story of Marambaia Fishing School, on Bay of Ilha Grande, which trains Brazilian boys in fishing arts: building and handling small boats; making and repairing nets. (*15 minutes*)
..... **32, 41**

Brazing Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 1) How to braze carbide tools with silver solder; make a sandwich braze; and braze by other methods. Supplementary filmstrip, same title, also available. (*OE 241; 18 minutes*)
..... **32, 41**

Brazing Flanges with Silver Solder
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 3) How tubing and silver brazing flanges are fitted; flux applied; heat

applied to draw silver solder in and out; and flange cleaned after soldering. Supplementary filmstrip, same title, also available. (*OE 104; 13 minutes*)
..... **32, 41**

Brazing Flanges with Spelter
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 2) How copper tubing is prepared for flanges; flanges fitted for brazing; borax applied before brazing flanges; tube and flange brazed over a forge; and brazed flanges prepared for installation on the hull. Supplementary filmstrip, same title, also available. (*OE 103; 19 minutes*)
..... **32, 41**

Breakbone Fever: "Dengue"
U.S. Department of the Navy. (Medicine in Action Series, No. 3) How female Aedes mosquito attacked base in South Pacific; measures used to cure patients and kill mosquitoes; diagnosis and treatment of typical cases. (*MN 3726–c; 7 minutes, color*)
..... **41**

Breakthrough
U.S. Economic Cooperation Administration, 1950. History of Aura, Norwegian power project and largest in Europe, related by Aura man; how its building and completion is a story of labor's gains; Marshall Aid, the struggle of men and machines against nature and power supplied by Aura to other European countries. American version. (*18 minutes*)
..... **24**

Breast Cancer: The Problem of Early Diagnosis
U.S. Public Health Service in cooperation with American Cancer Society, 1949. How cancer mortality can be cut 50 percent if disease is treated in 6 months. Complete breast examination; inspection; palpitation and transillumination. Biopsy only certain means of identifying malignant tumors. For medical and nursing personnel. (*34 minutes, color*)
..... **26**

Breast Self-Examination
U.S. Public Health Service in cooperation with American Cancer Society, 1950. Simple technique of self-examination for breast tumors; value of monthly examinations to discover tumors in time for successful treatment. Primarily for women's clubs. (*16 minutes, color*)
..... **26**

The Breaststroke, Sidestroke and Underwater Swimming
U.S. Coast Guard, 1943. Conventional breast stroke, timing the strokes, and the kick. (*12 minutes*)
..... **41**

The Bridge
U.S. Coordinator of Inter-American Affairs in cooperation with Foreign Policy Association, 1944. How air travel and transportation will play a large part in modernizing the remote inaccessible regions of Latin America. (*30 minutes*)
..... **32**

Broaching an Internal Keyway
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Broaching Machine No. 1) What internal broaching is; how the broaching tool cuts; principles of broaching tool design; how to select the broaching tool for the job and operate the horizontal broaching machine. Supplementary filmstrip, same title, also available. (*OE 236; 23 minutes*)
..... **32, 41**

Broncheogenic Carcinoma
U.S. Veterans' Administration, 1949. Operative procedures and treatment of broncheogenic carcinoma. For professional personnel and medical students. (*20 minutes*)
..... **31**

Brooklyn Technical High School
U.S. Department of the Army, 1950. How a New York public high school is equipped to provide instruction in all phases of engineering, construction, and manufacturing procedures. (*CAD; 10 minutes*)
..... **32, 41**

Brought To Action
U.S. Department of the Navy, 1944. Naval action in second battle of the Philippines in 1944; plans and tactics of attack; Japanese pincer movement, plan on Leyte and Navy's counterattack plan. (*MN 5297; 21 minutes*)
..... **14**

Buenos Aires and Montevideo
U.S. Coordinator of Inter-American Affairs, 1942. (South American Medley Series No. 3) Camera studies of Buenos Aires' large buildings, modern apartments, department stores, and modern life; and Montevideo's beautiful homes and beaches. (*11 minutes, color*)
..... **32, 41**

Building a Bomber
U.S. Office of Emergency Management, 1941. Educational exposition of the building of the B–26 Army medium bomber. Primarily for engineering and vocational school audience. (*20 minutes*)
..... **32, 41**

Building a Box Beam Spar
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 2) How to assemble the parts of the spar in a jig; apply aircraft glue; clamp parts together for a good glue bond; varnish surfaces; and use jigs for accurate drilling. Supplementary filmstrip, same title, also available. (*OE 297; 21 minutes*)
..... **7, 32, 41**

Building a New Community
U.S. Tennessee Valley Authority, 1948. Story of the development of a community in the Tennessee Valley. (*15 minutes, silent*)
..... **30, 40**

Building a New Dominion
U.S. Tennessee Valley Authority in cooperation with Virginia Polytechnic Institute, Extension Service, 1946. Home and farm improvements and personal achievement scenes from farms of several individual unit test-demonstration farms. (*20 minutes*)
..... **30, 40**

Building a Tank
U.S. Office of Emergency Management, 1942. Construction of the M–3 Army medium tank at the Detroit tank arsenal; technical details of manufacture. (*20 minutes*)
..... **32, 41**

Building a Wooden Rib
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 1) How to assemble, fit, and glue wooden parts in a jig; fit and position the gussets to the framework; apply aircraft glue and varnish. Supplementary filmstrip, same title, also available. (*OE 296; 19 minutes*)
..... **7, 32, 41**

The Bulkhead: Laying Off and Fitting a Centerline Stiffener
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 8) Design of a centerline bulkhead stiffener; how to lay out the main stiffener bar with the waterlines and work lines; lay out, cut, and fit a main stiffener bracket and tripping brackets. Supplementary filmstrip, same title, also available. (*OE 31; 16 minutes*)
..... **32, 41**

The Bulkhead: Laying Off the Boundary, Stiffeners, Waterlines, and Buttock Lines
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 7) How to align templates to a bulkhead plate; mark off stiffener work lines on the bulkhead plate; prepare the plate for welding the stiffeners. Supplementary filmstrip, same title, also available. (*OE 30; 18 minutes*)
..... **32, 41**

The Bulkhead: Setting a Transverse Watertight Bulkhead into the Hull
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 9) How to square a transverse bulkhead to a frame line and the centerline of the ship; set the bulkhead to proper height and declivity; cut the bulkhead to fit the inner-

bottom; fit the bulkhead to the hull and tack-weld it. Supplementary filmstrip, same title, also available. (*OE 32; 17 minutes*)
..... **32, 41**

Bull's-Eye for Farmer Pietersen
U.S. Economic Cooperation Administration, 1950. How Farmer Pietersen convinces his neighbors that mechanized farming on a cooperative basis, using Marshall Aid equipment, means higher production and more leisure. American version. (*20 minutes*)
..... **24**

Buoys and Beacons
U.S. Department of the Navy, 1944. (Aids to Navigation Series) Function and distinguishing features of buoys and beacons: color, numbering, shape, color and characteristics of lights; how to identify each type. (*MN 202–ab; 9 minutes, color*)
..... **41**

Burnishing Pivots
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 9) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Burroughs Newsboy Foundation
U.S. Department of the Army, 1950. Description of school, clubhouse and summer camp given to Boston's newsboys by former newsboy philanthropist; how special emphasis on civic enterprises and democratic procedures supplements regular school work. (*CAD 141; 10 minutes*)
..... **32, 41**

Bus Care and Maintenance
U.S. Office of Education, 1945. (Automotive Series. School Bus Operation No. 1) Importance of daily and weekly maintenance checks; how to start, steer, and stop the bus; how to double clutch; and the importance of safe driving habits. Supplementary filmstrip, same title, also available. (*OE 494; 13 minutes*)
..... **32, 41**

Cable Surface Wiring
U.S. Office of Education, 1944. (Electrical Work Series. Wiring) How to make an electrical entrance to a building; install nonmetallic sheathed cable; handle and install porcelain fittings; support and connect cable; prepare and connect wires for service. Supplementary filmstrip, same title, also available. (*OE 377; 17 minutes*)
..... **32, 41**

Caissons Go Rolling Along
U.S. Office of War Information, Domestic Branch, 1942. Field artillery song sung with background of graphic scenes of field artillery in action. (*3 minutes*)
..... **32, 41**

Campus on the March
U.S. Office of War Information, Domestic Branch, 1942. Wartime activities including military training programs carried on in American colleges and universities prepare young men and women for war today and peace tomorrow. (*19 minutes*)
..... **32, 41**

Canadian Porcupine
U.S. Fish and Wildlife Service, 1947. How porcupines cause great amount of damage to lumber industry and farm crops; types of food consumed in four seasons of year. (*15 minutes, color, silent*)
..... **20**

Cancer Education
U.S. Department of the Army, 1949. Operation of mobile x-ray clinic in South; how to alert townspeople through advance announcement; x-ray all citizens; educate toward self-examination, and check on all possible cases of incipient cancer. (*CAD 136; 11 minutes*)
..... **32, 41**

Cancer in the Veteran
U.S. Veterans' Administration, 1946. Clinical pictures of cancer of the mouth; causes; prophylactic measures; and various types of treatment. For professional personnel and medical students. (*30 minutes*)
..... **31**

Cancer: The Problem of Early Diagnosis
U.S. Public Health Service in cooperation with American Cancer Society, 1949. How early suspicion, accurate diagnosis, and effective treatment by family doctor can reduce cancer deaths. For medical and nursing personnel. (*30 minutes, color*)
..... **26**

Cane Sugar
U.S. Department of Agriculture in cooperation with American Film Center, 1939. How sugarcane is grown and harvested and sugar manufactured. Prepared for school use. Long version "Sugarcane" also available. (*5 minutes*)
..... **32, 41**

Canning Beef
U.S. Office of Education, 1945. (Farm Work Series. Food Preservation No. 2) How to prepare soup stock; preheat beef; pack hot beef in cans; seal the cans; and cool and dry the cans before packing. Supplementary filmstrip, same title, also available. (*OE 455; 17 minutes*)
..... **32, 41**

Capacitance: Parts 1 and 2
U.S. Department of the Navy, 1943. (Radio Technician Training Series) How electrons flow thru a circuit; how condensers charge and discharge; variations of a charge on a condenser in relation to time; behavior of capacitance with alternating current. Supplementary filmstrip, same title, also available. (*MN 1540–a; 30 minutes*)
..... **7, 41**

Capital Story
U.S. Office of War Information, Overseas Branch, 1945. How U.S. Public Health Service scientists in the industrial field work for betterment of working conditions in factories. (*20 minutes*)
..... **32, 41**

Carburetion
U.S. Department of the Air Force, 1941. (Aircraft Engines Series) Functions, parts, and variations of carburetors; air and gas mixtures used; variations in ratio desirable for idling, acceleration, and maximum power; special problems created by dives and operation at high altitudes; devices to control mixture under varying conditions. Animated diagrams. (*TF 1–137; 37 minutes*)
..... **7, 32, 41**

Care and Maintenance of Tapered Roller Bearings
U.S. Department of the Army, 1941. Care, maintenance, and adjustment; how units are disassembled, cleaned, inspected, lubricated, and reassembled. (*TF 11–257; 31 minutes*)
..... **41**

Care and Operation of Gun Cameras
U.S. Department of the Navy, 1945. Various types of gun cameras; how to set speed-change dial, speed index ring, and lens diaphragm ring; maintenance, lubrication, installation, and purpose of AN gun camera. (*MN 4376; 22 minutes*)
..... **41**

Care of a Tractor
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 6) Day-by-day operating care of a tractor; importance of periodic inspections; parts of the tractor, including cooling system, fuel system, and ignition system. Supplementary filmstrip, same title, also available. (*OE 454; 22 minutes*)
..... **32, 41**

Care of the Cardiac Patient
U.S. Office of Education, 1945. (Nursing Series) Nursing care given a cardiac patient, including comfort, rest, sleep, diet, feeding, elimination, cleanliness, and diversional and occupational therapy. Supplementary filmstrip, same title, also available. (*OE 419; 33 minutes*)
..... **32, 41**

Care of the Feet
U.S. Department of the Navy, 1946. How to select properly fitting shoes: use of measuring machine by storekeeper; how ill fitting shoes cause corns and cal-

louses; effects of athlete's foot. (*MN 6143; 12 minutes, color*)
..... 41

Care of the Newborn Baby: The Nurse's Role in Instructing the Parents
U.S. Office of Education, 1944. (Nursing Series) Nurse's functions and duties in teaching parents to care for newborn babies; what the nurse can do in the home, clinic, and hospital; how to hold, dress, bathe, and feed a baby. Supplementary filmstrip, same title, also available. (*OE 412; 31 minutes*)
..... 32, 41

Care of the Patient with Diabetes Mellitus (Complicated)
U.S. Office of Education, 1945. (Nursing Series) Nurse's role in the diagnosis and treatment of coma and insulin shock, and the role of the nurse, doctor, dietician and psychiatrist in assisting the patient to develop a healthy mental attitude toward his condition. Animation. Supplementary filmstrip, same title, also available. (*OE 418; 23 minutes*)
..... 32, 41

Care of the Patient with Diabetes Mellitus (Uncomplicated)
U.S. Office of Education, 1945. (Nursing Series) Symptoms of diabetes; shows how the nurse teaches the patient to administer insulin injections, regulate diet, and make the Benedict test for sugar in the urine. Supplementary filmstrip, same title, also available. (*OE 417; 29 minutes*)
..... 32, 41

The Care Story
U.S. Department of the Army, 1950. Title self-explanatory. (*CAD 65; 10 minutes*)
..... 32, 41

Cargo Critical
U.S. Department of the Air Force, 1950. How the Patient Air Evacuation Mission of Military Air-Transport Service flies sick and wounded members of the Armed Forces from remote bases throughout the world to hospitals in the States. (*SFP 255, 14 minutes*)
..... 11, 41

Cargo Handling Gear, Basic Operation
U.S. Department of the Army, 1943. (Military Stevedoring Series No. 2) The basic movements of unloading: vertical upward, horizontal, and vertical downward; how to operate winches in loading and unloading and top the boom. (*TF 55–1005; 14 minutes*)
..... 41

Carry the Fight
U.S. Coast Guard, 1943. How Coast Guard helped combat submarines in the Atlantic. (*10 minutes*)
..... 21

The Case of the Tremendous Trifle: Ball Bearings
U.S. Department of the Army, 1944. Importance of the tiny ball bearing and how an American mass bomber raid on Schweinfurt put half of the Nazi's ball bearing factories out of business. (*WF 13; 20 minutes*)
..... 32, 41

Castaway
U.S. Department of the Navy, 1944. (Castaway Series) How to land in ocean, lash equipment to raft; live on rubber raft, dry island, inhabited island; find food and water; deal with natives. (*MN 2306–a; 61 minutes*)
..... 41

Catheterizing the Male Patient
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to catheterize male patient; tricks used to avoid this practice. (*MN 1511–w; 16 minutes*)
..... 41

The Cathode Ray: How It Works
U.S. Department of the Navy, 1943. Construction and function of cathode ray parts; how it produces images on screen; electromagnetic deflection; effect of varied

currents on position of spot-light scope. (*MN 2104–a; 15 minutes*)
..... 7, 41

The Cathode-Ray Oscilloscope
U.S. Department of the Navy, 1944. Purpose and operation of cathode-ray oscilloscope; various operating checks. (*MN 2104–b; 23 minutes*)
..... 7, 32, 41

Cavalcade of the American Merchant Marine
U.S. War Shipping Administration, 1944. Released through U.S. Maritime Commission, 1946. How U.S. Merchant Marine developed from colonial days to the present; shipping shortage of World War I; modern training methods for seamen and officers through U.S. Maritime Service and U.S. Merchant Marine Cadet Corps. (*22 minutes, color*)
..... 8

Cavity Preparation
U.S. Department of the Navy, 1948. (Operative Dentistry Series) Title self-explanatory. (*MN 5369–b; 10 minutes, color*)
..... 41

Centering, Edge Grinding, and Beveling: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) How to center lenses by collimator; set up lenses for edge-and-bevel-grinding in single spindle or two spindle machine; and edge-and-bevel-grind lenses. Animation. Supplementary filmstrip, same title, also available. (*OE 185; 27 minutes*)
..... 32, 41

Centering Small Stock
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 7) How to locate the center of round, square, and rectangular pieces, using surface plate, V blocks and surface gage; hermaphrodite calipers; and center head and rule. Supplementary filmstrip, same title, also available. (*OE 39; 12 minutes*)
..... 32, 41

Centerville, USA
U.S. Marine Corps, 1947. Story of two members of a Marine Corps Reserve Unit. (*17 minutes*)
..... 15

Chain of Asepsis
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to prepare patient and operating room; maintain chain of asepsis during operation; scrub technique; importance of sterile technique. (*MN 1511–f; 28 minutes*)
..... 41

Challenge: Science Against Cancer
U.S. Public Health Service in cooperation with Canadian Department of National Health and Welfare, 1950. How science's efforts to conquer the cell aid the fight against cancer. For general public. (*30 minutes*)
..... 26

The Chandelle
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to use ailerons, rudders, and controls in executing chandelle. "Joe Student" film. (*MN 1325–c; 14 minutes*)
..... 7, 41

Chandelles
U.S. Department of the Air Force, 1942. How to execute a chandelle in animation and live action. (*TF 1–495; 7 minutes*)
..... 7

Characteristics of Hydraulic Fluids
U.S. Department of the Navy, 1944. (Elementary Hydraulics Series) Essential qualities of hydraulic fluids; how they lubricate moving parts; reduce friction; prevent wear; why they must be free of water, rust and other impurities and of proper viscosity. (*MN 1730–f; 10 minutes*)
..... 7

Charging and Operating a Cupola
U.S. Office of Education, 1945. (Foundry Work Series. Melting Practice) Essential parts of the cupola; steps to be followed in firing, charging, and operating a

cupola; and the cycle of operations involved in the melting process. Supplementary filmstrip, same title, also available. (*OE 437; 14 minutes*)

..... **32, 41**

Charging Storage Batteries

U.S. Department of the Army, 1943. (Electricity and Magnetism Series No. 4) Methods, advantages, and disadvantages of constant and modified constant voltage; charging, care, and preparation of storage batteries. (*TF 11–1219; 16 minutes*)

..... **32, 41**

Charts

U.S. Department of the Navy, 1942. (Navigation Series) Meaning, advantages, and limitations of Mercator, gnomonic, and Lambert Conformal projections. College level. (*MN 83–b; 18 minutes*)

..... **7, 41**

Checking and Replacing a Float Valve

U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 8) Function of the two basic types of float valves—high-side float and low-side float; how to correct troubles in both types; and replace a high-side float. Supplementary filmstrip, same title, also available. (*OE 445; 19 minutes*)

..... **32, 41**

Checking the Electrical System

U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 9) How to check and service an overheated motor in a domestic refrigerator; service a stalled capacitor or R.I. motor; elements of range and differential adjustments. Supplementary filmstrip, same title, also available. (*OE 446; 17 minutes*)

..... **32, 41**

Checking the System. Part 1: General Procedure

U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 1) How to install gages in a domestic refrigerator; check operating pressures, compressor performance, and temperature range of the cooling unit; clean the condenser and oil the motor of an open-type refrigeration unit. Supplementary filmstrip, same title, also available. (*OE 438; 17 minutes*)

..... **32, 41**

Checking the System. Part 2: Trouble Shooting

U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 2) How to determine causes of several common troubles such as "unit will not run," "no refrigeration, but the unit runs continuously," and "improper refrigeration of food but unit freezes ice cubes." Supplementary filmstrip, same title, also available. (*OE 439; 17 minutes*)

..... **32, 41**

The Chemistry of Fire

U.S. Department of the Navy, 1943. (Damage Control Series) How the elements of fuel, oxygen, and ignition temperature must be present in order to have fire; flash point and ignition point of fuels; and two ways in which a fire may be extinguished. (*MN 61–a; 45 minutes*)

..... **7, 32, 41**

China Crisis

U.S. Department of the Air Force, 1946. How the 14th Air Force, originally the Flying Tigers, supported Chinese Army against Japan's East China Offensive of 1944. How men and materials were transported from India to China over the Hump and how cooperating with the Navy it attacked coastal areas and China Sea shipping. (*SFP 174; 45 minutes*)

..... **11**

Chinese Reds Enter War

U.S. Department of the Army, 1951. Activities in Korea, October 20 to November 20, 1950; field demonstrations at Aberdeen Proving Ground; rough weather impeding Navy off Korea; AF tests on new Fairchild XC–120 pack plane; demonstration of U.S. winter uniforms. (*CB 104; 21 minutes*)

..... **12**

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Chisels
U.S. Department of the Army, 1943. (Care and Use of Hand Tools Series No. 3) Various types of cold chisels; uses, techniques, and safety precautions. (*TF 9–2028; 12 minutes*)
..... **32, 41**

Choose To Live
U.S. Public Health Service with the cooperation of the U.S. Department of Agriculture, 1940. Cancer control: danger signals; diagnosis; x-ray, radium and surgical treatment in modern hospitals; possibility of cure; current scientific research at National Institute of Health, Memorial Hospital, New York, and Marine Hospital, Baltimore. (*11 minutes*)
..... **26, 32, 41**

Chuck Work. Part 1: Setting Up Hexagon Turret Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 2) How to use a power chuck; set up tools for internal cuts and for multiple cuts; and set up feed stops for the hexagon turret. Supplementary filmstrip, same title, also available. (*OE 213; 22 minutes*)
..... **32, 41**

Chuck Work. Part 2: Setting Up Tools for Combined Cuts
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 3) How to set up tools for the square turret; make combined cuts; set cross-slide and carriage stops; set up the speed preselector; and perform a sequence of operations efficiently. Supplementary filmstrip, same title, also available. (*OE 214; 16 minutes*)
..... **32, 41**

Cicada
U.S. Department of Agriculture in cooperation with American Film Center, 1939. Life of the 17-year locust. Prepared for school use. Short version of "The Cicada" also available. (*10 minutes*)
..... **32, 41**

The Cicada
U.S. Department of Agriculture, in cooperation with American Film Center, 1937. Life story of 17-year locust: nymph emerges from ground, attaches to plant, emerges from shell, dries wings, female deposits eggs, young nymphs hatch and burrow in soil for 17 years. (*20 minutes*)
..... **32, 41**

Citizen in Arms
U.S. Department of the Army, 1948. How the American soldier from the beginning to the present time, has shared in the development of the United States. (*OF 48; 8 minutes*)
..... **12, 32, 41**

City of Darkness
U.S. Economic Cooperation Administration, 1950. How western sector Berliners, stripped of factories by the Soviet Union and dependent on Soviet zone power stations for electricity, constructed their own power plant when power was switched off throughout the blockade of Berlin; how Air Lift flew in machinery and Power Station West now supplies homes and industry; how electricity is generated from coal. (*9 minutes*)
..... **24**

City of Rome Incident
U.S. Department of the Navy, 1942. (Rules of the Nautical Road Series) How 37 men in the submarine S–51 met their death due to improper placement of running lights and disregard for rules of the nautical road. (*MN 202–d; 5 minutes, color*)
..... **41**

Civil Air Patrol
U.S. Department of the Air Force, 1950. History, accomplishments, and mission of Civil Air Patrol in National Defense and civilian emergencies; cadet training program; two-weeks summer encampments at various USAF bases; and staged maneuver, Operation Flood. (*SFP 251; 20 minutes*)
..... **11, 32, 41**

Clap a Stopper on a Line
U.S. Coast Guard, 1943. How a stopper on a line stops its motion; how to tie. (*2 minutes*)
..... **41**

Cleaning Equipment and Containers
U.S. Public Health Service with the cooperation of U.S. Office of Education, 1946. (Small Milk Plant Operation Series) Demonstrates methods for the cleaning and bactericidal treatment of cans, bottles, piping and other equipment, following the routine of flush, scrub, rinse and sterilize. For milk handlers and sanitarians and general public. (*28 minutes*)
..... **26, 32, 41**

Cleaning Mess Gear
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) Mac Gillicuddy doesn't clean his mess gear properly and resulting "stomach disorder" converts him to another health commandment. (*MN 2808–e; 5 minutes*)
..... **41**

Cleaning Up
U.S. Department of the Air Force, 1942. (The 1820 Wright Engine Series) Cleaning of parts during overhaul: disassembly of oil pump, carburetor adapter, priming lines, intake pipes, rocker arms, push rod housing valves, and cylinders. (*TF 1–450; 20 minutes*)
..... **7**

Cleanliness Brings Health
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) How personal cleanliness, clean food, and safe disposal of excreta are first steps in protection against disease microbes in home. Compares "The Clean" and "The Careless Family." Portuguese version "Limpeza Tras Saude" and Spanish version "Limpieza Trae Salud" also available. (*9 minutes, color*)
..... **32, 37**

Clearing Land
U.S. Dept. of Agriculture, 1929. How to remove stumps and boulders; burning, dynamiting, pulling out with tractor, mule-powered chain whips, mallet or "Paul Bunyan" puller, hand-power puller; various types of burners and blowers. (*30 minutes, silent*)
..... **32, 41**

Clinical Malaria
U.S. Department of the Navy, 1944. Activity of anophelines; life cycle of malaria parasite in human blood; symptoms and effects of benign, tertian, quartan, and malignant tertian malaria. Special film for medical personnel. (*MN 1965; 28 minutes*)
..... **41**

Clouds
U.S. Weather Bureau, 1939. Various types of clouds; how high and low pressure areas move across the country; how to forecast weather from cloud study. 2nd prize, International Exposition of Agricultural Films, Rome, May 20–27, 1940. (*11 minutes*)
..... **32, 41**

Clouds and Weather
U.S. Weather Bureau, 1939. Various types of clouds; how low and high pressure areas move across the country; how to forecast weather from cloud study. School version of "Clouds." (*6 minutes*)
..... **32**

The Clove Hitch
U.S. Coast Guard, 1943. Why clove hitch is used to secure line to post or pile and how to tie. (*2 minutes*)
..... **41**

The Clutch and Hand Brake
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 6) How to determine the amount of clutch pedal clearance or "lash"; correct abnormal "lash"; check clutch for slipping, grabbing, or drag; and inspect and adjust the hand brake. Supplementary filmstrip, same title, also available. (*OE 482; 12 minutes*)
..... **32, 41**

Coast Guard Academy
U.S. Coast Guard, 1947. Student life at Coast Guard Academy, New London,

Conn.: various activities such as drills, study periods, training, living quarters, sports, social activities. (*22 minutes, color*)
..... 21

The Coast Guard At War. Part 1: Along Our Shores
U.S. Coast Guard, 1945. Wartime activities on and off U.S. shores; officer and enlisted personnel training; duties of Spars; work of Merchant Marine Inspection; port security; off-shore and beach patrols; navigation aids; Air-Sea Rescue agency. (*16 minutes, color*)
..... 21

The Coast Guard At War. Part 2: On Foreign Shores
U.S. Coast Guard, 1945. Battle zone activities from 1940; scenes from ten invasions in which Coast Guard participated; massing of ships at H-hour on D-day; preliminary bombardments; landings; Kamikaze attacks; flag rising on Japan. (*26 minutes*)
..... 21

The Cold Front
U.S. Department of the Navy, 1943. (Aerology Series) Cold front formation, characteristics and dangers; how to avoid hazards by high or low level flight. (*MN 119–e; 18 minutes, color*)
..... 7, 32

Cold Weather Seabee
U.S. Department of the Navy, 1950. Midwinter exercise by Seabee Reservists in training with the Army in the Rocky Mountains. Instructions in skiing, snowshoeing, and cold weather survival. (*MN 9183; 13 minutes*)
..... 14, 41

The Collection of Adult Flies
U.S. Public Health Service, 1949. (Community fly control series) Three effective devices for adult fly collection; sweep net, for rapid surveys; fly trap, for detailed qualitative studies; and cone net, for collecting live flies over natural attractants. Supplementary filmstrip, same title, also available. (*CDC–4–085; 6 minutes, color*)
..... 27, 41

Colombia
U.S. Coordinator of Inter-American Affairs, 1942. (South American Medley Series No. 2) Views of Cartagena, Bogota, the port of Barranquilla, and the countryside; coffee industry and modern industrialization. (*10 minutes*)
..... 32

The Columbia: America's Greatest Power Stream
U.S. Bonneville Power Administration, 1949. Federal program for development of Columbia River and tributaries: construction of multiple purpose projects, Grand Coulee and Bonneville Dams for irrigation, navigation, and flood control. (*20 minutes*)
..... 16, 33

Colombia: Crossroads of the Americas
U.S. Coordinator of Inter-American Affairs, 1942. Geographic, social, religious, and economic picture of life in Colombia; Colombian industries; family life of the people; views of Bogota; topographical map of Colombia. (*27 minutes*)
..... 32, 41

Combat Firing with Hand Guns
U.S. Department of the Army, 1944. Techniques and methods in the use of hand guns by military police in combat firing, and in the employment of hand weapons quickly and at close quarters. (*FB 152; 17 minutes*)
..... 41

Combat Report: Aviation
U.S. Department of the Army, 1943. What it takes to sink a submarine besides an efficient bomb crew and a load of explosives. (*WF 2; 13 minutes*)
..... 32, 41

Combustion Control
U.S. Department of the Navy, 1944. (Fireroom Operation Series) Apparatus and personnel required in combustion control of naval marine boilers; essential

elements of atomizer and its spraying. (*MN 2356–e; 33 minutes*)
..... **41**

Comeback
U.S. Office of Vocational Rehabilitation, 1946. Vocational rehabilitation in U.S. States and territories; how five typically handicapped persons make good employees; counseling, physical restoration; training, and work done. (*27 minutes, color*)
..... **32, 35**

Comida Abundante para Todos
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Extra Feeding Pays." Portuguese version "Produza Mais Alimentos" also available. (*8 minutes, color*)
..... **37**

Commerce and Finance in Japan
U.S. Department of Army, 1945. Highlights of Japanese industrial structure: banking, textile, silk, mining, forestry and commercial trade. (*M 1071; 26 minutes*)
..... **41**

Common Errors in Forest Fire Fighting
U.S. Department of Agriculture, 1942. Training film for fire fighters; necessity for well-planned camp locations, proper use of machines supported by adequate number of organized men, effective use of water, etc. (*30 minutes*)
..... **3, 32, 41**

Communications in the Infantry Regiment
U.S. Department of the Army, 1948. Common means of communication in infantry regiment: radio, wire, and message center; systems of wire communications and radio nets in regiment, between regiments and to supporting units. (*TF 11–1488; 26 minutes*)
..... **41**

Communism
U.S. Department of the Army, 1950. History of Communism: its totalitarian characteristics; how communists operate in the United States. (*AFIF 5; 32 minutes*)
..... **32, 41**

A Community Advisory Service
U.S. Department of State, 1949. Organization and operation of Bridgeport, Conn., Community Advisory Service; case histories; how industrial workers and war veterans overcome physical disabilities and obtain suitable jobs, training, financial assistance, and other help. Released through U.S. Office of Education for educational use in the United States. (*27 minutes*)
..... **32, 41**

Community Canning
U.S. Office of Education, 1943. (Farm Work Series. Food Preservation No. 1) How to wash, snap, grade, blanch, and season beans; prepare the cans, then pack and exhaust them; label and seal the cans; use a pressure cooker, or retort; cool, dry, and store the cans. Supplementary filmstrip, same title, also available. (*OE 198; 17 minutes*)
..... **32, 41**

Community Chest
U.S. Department of the Army, 1950. Sociology student reports how individual welfare agencies in Yonkers, New York, organized under the community chest, work to solve rehabilitation, welfare, and relief needs. (*CAD; 19 minutes*)
..... **32, 41**

The Compass System
U.S. Department of the Navy, 1944. (The Gyro Compass Series) Sperry Mark 14 Gyro compass's five major assemblies: sensitive, phantom, and spider elements, mercury ballistic and binnacle; operation of follow-up and repeater systems. (*MN 1792–e; 16 minutes*)
..... **7, 41**

Como Ciudar da Crianca
U.S. Office of Inter-American Affairs, 1945. (Salude para as Americas) Portuguese version of "Infant Care." Spanish version "El Cuidado Del Nino" also available. (*9 minutes, color*)
..... **37**

Como Cuidar da Terra
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "The Land Must Eat." Spanish version "Hay Que Alimentar La Tierra" also available. (*9 minutes, color*)
..... **37**

Como Exterminar os Insectos
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Insect Enemies." Spanish version "Exterminacion De Las Plagas" also available. (*7 minutes, color*)
..... **37**

Compressibility Film
U.S. National Advisory Committee for Aeronautics, 1945. Technical film; title self-explanatory. (*33 minutes, silent*)
..... **28**

Compression Molding. Part 1: Preparing the Charge and Loading the Mold
U.S. Office of Education, 1945. (Plastics Series No. 3) How to set up the press; weigh the charge; preheat the charge; clean and lubricate the mold; load the mold. Animation. Supplementary filmstrip, same title, also available. (*OE 468; 11 minutes*)
..... **32, 41**

Compression Molding. Part 2: Molding a Simple Part
U.S. Office of Education, 1945. (Plastics Series No. 4) How to close the mold; breathe the mold; open the mold; prevent pieces from warping; and coordinate steps of the molding cycle. Animation. Supplementary filmstrip, same title, also available. (*OE 469; 10 minutes*)
..... **32, 41**

Concrete Ditching for Malaria Control
U.S. Public Health Service, 1949. (Malaria Control Series) How to construct a permanent concrete drainage system to eliminate breeding areas for malaria-carrying mosquitoes, improve community appearance, and create higher property values, farming efficiency, income and standards of living. (*CDC–4–046; 7 minutes, color*)
..... **27**

Connecting and Adjusting Controls
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) How to inspect and adjust the elevator and rudder control cables; line up and safety a turnbuckle; remove and replace a damaged aileron control cable; and adjust it for proper aileron travel. Supplementary filmstrip, same title, also available. (*OE 260; 19 minutes*)
..... **32, 41**

Conselhos para as Maes
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Wise Parents: Healthy Babies." Spanish version "Cuidado De La Madre" also available. (*11 minutes, color*)
..... **37**

Conservacao do Solo
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Your Soil: Your Future." Spanish version "Conservacion De La Tierra Fertil" also available. (*8 minutes, color*)
..... **37**

Conservacion de la Tierra Fertil
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Your Soil: Your Future." Portuguese version "Conservacao Do Solo" also available. (*8 minutes, color*)
..... **37**

Consolidated Loose Issue and Packing Room
U.S. Department of the Army, 1949. Quartermaster warehousing operations in the storage and supply of loose issue items; action taken to fill a requisition at a supply warehouse depot. (*FB 224; 22 minutes*)
..... **41**

Consolidated Messing Operations
U.S. Department of the Army, 1949. How a consolidated mess is operated; how mess steward and personnel plan operation, supervise and delegate jobs

to various mess personnel. (*TF 10–1583; 13 minutes*)
..... 41

Constructing a Sanitary Pit Privy
U.S. Public Health Service, 1949. (Environmental Sanitation Series) Public Health values of the sanitary pit privy, principles of sanitation involved in its construction and construction procedures. (*CDC–4–083; 15 minutes, color*)
..... 27, 41

Construction
U.S. Department of the Navy, 1949. (U.S. Naval Arctic Operations Series. Petroleum Reserve No. 4) Title self-explanatory. (*MN 5377–e; 21 minutes, color*)
..... 41

Construction and Types
U.S. Department of the Air Force, 1942. (Parachutes Series) Manufacture, packing, maintenance, and construction of parachutes; five methods of attaching parachute to body. (*TF 1536; 10 minutes*)
..... 7

Construction of a Maxillary Anterior Fixed Bridge
U.S. Department of the Navy, 1943. (U.S. Naval Dental Corps Prosthesis Series) How to make maxillary anterior fixed bridge; clean; file and shape teeth to which bridge will be fixed; measure for bridge. Special film for dental personnel. Revision. (*MN 2450; 53 minutes, color, silent*)
..... 41

Construction of a Partial Maxillary and Mandibular Plate
U.S. Department of the Navy, 1944. (The U.S. Naval Dental Corps Prosthesis Series) Various molding, heating, and shaping processes; how to take wax impression of gums; make mold; add plaster; shape; try for precision fit. Special film for dental personnel. (*MN 2148; 24 minutes, color, silent*)
..... 41

Construction of Arctic Igloo
U.S. Department of the Army, 1948. Construction and value of a "snow house," how a three man igloo is constructed in three hours by three men using three knives; use as a shelter by its builders. Included in "Arctic Igloo; Something About a Soldier." (*FB 220; 10 minutes*)
..... 41

The Construction of Diesel Engines
U.S. Department of the Navy, 1942. Structure and parts of several types of Diesel engines. Cross-sectional animated drawings and straight photography. (*MN 43; 15 minutes*)
..... 41

Construction of Pre-Stressed Concrete Tanks
U.S. Department of the Navy, 1945. How to build concrete storage tank from packing of ground to seal coat on inside of complete tank. (*MN 2620; 36 minutes*)
..... 41

Contour Face Milling
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 3) Shows how to set up the job; align workpiece square with spindle; make a rough-facing cut; and a finish-facing cut. Supplementary filmstrip, same title, also available. (*OE 227; 17 minutes*)
..... 32, 41

Control of Mosquito-Borne Diseases
U.S. Department of the Army, 1948. Anopheles, Gulex, and Medes mosquitoes as carriers of malaria; dengue, brain fever and filariasis; efforts and cooperation of Army, Navy, and Air Force research personnel, laboratory technicians and doctors to control and eradicate these diseases. (*TF 8–1495; 19 minutes*)
..... 41

Control of Worms in Hogs
U.S. Department of Agriculture, 1934. Life history and control measures of internal hog parasites: thornheaded worms,

nodular worms, stomach worms, roundworms, lungworms, and kidney worms. (*28 minutes, silent*)
..... 32, 41

Control Surfaces
U.S. Department of the Air Force, 1942. (Airplane Structures Series) Definition, location and function of ailerons, rudders, tail flaps, wing flaps, vertical fins, elevators, and horizontal fins; functions of trip tabs, fixed and adjustable; types of fabric coverings of these surfaces. (*TF 1–214; 7 minutes*)
..... 7

Controls
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. (How an Airplane Flies Series No. 6) How to use controls to modify straight and level flying: elevators for changing pitch; ailerons for rolling and banking, and rudder for turns. (*10 minutes*)
..... 7

Conventional Signs
U.S. Department of the Army, 1945. (Basic Map Reading Series No. 1) Presents each sign, then superimposes it on feature it represents and shows its relationship to other signs on map. (*TF 21–2071; 19 minutes*)
..... 41

Conversion From Black Oil to Diesel Fuel: Navy Improved Method
U.S. Department of the Navy, 1950. (Navy Tank Cleaning Procedures Series) Training film; title self-explanatory. (*MN 6689–b; 24 minutes*)
..... 41

Conversion from Black Oil to Gasoline: Navy Chemical Method
U.S. Department of the Navy, 1950. (Navy Tank Cleaning Procedures Series) Training film; title self-explanatory. (*MN 6689–c; 26 minutes*)
..... 41

Conveying and Measuring Irrigation Water
U.S. Department of Agriculture, 1932. Devices and procedures developed by Bureau of Agricultural Engineering for measuring, proportioning, and conveying irrigation water; value of soil tests. (*26 minutes, silent*)
..... 32, 41

Cooking and Carving of Meat
U.S. Department of the Army, 1943. (The Army Cook Series No. 6) How to carve meat; how to make stew, braze meat, fry in deep fat, and cook by dry and moist heat methods. (*TF 10–1138; 20 minutes*)
..... 41

The Cooling System and Fuel System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 4) How to check for leaks in the cooling system; check the fan and water pump; mechanical operation of the carburetor; filters and vents; fuel pump; and leakage in the fuel system. Supplementary filmstrip, same title, also available. (*OE 464; 22 minutes*)
..... 32, 41

Cooper Bessemer Diesel Engine Fuel System
U.S. Department of the Navy, 1944. Fuel injection system; examination of the fuel pump; fuel delivery and pressure; functioning of the fuel injection nozzles. Animated diagrams. (*MN 46–b; 14 minutes*)
..... 41

Cooperative Wool: From Fleece to Fabric
U.S. Department of Agriculture, 1942. Story of wool from sheep to consumer; shearing; cooperative marketing associations practices for direct efficient selling; and wool manufacturing. (*32 minutes*)
..... 2, 32, 41

Copper Leaching and Concentration
U.S. Bureau of Mines in cooperation with Phelps Dodge Corp, 1938. Recovering copper from old mine workings by leaching; concentrating low-grade ore for smelter: crushing; screening; grinding, separating by flotation; disposal of

tailings; collection of concentrates on suction filters; shipment to smelter. (*15 minutes, silent*)

..... 17

Copper Mining in Arizona

U.S. Bureau of Mines in cooperation with Phelps Dodge Co., 1938. Open pit and underground mining at Morenci, Ajo, Jerome and Bisbee: diamond drilling; air drilling and blasting; churn drilling; and blasting in open pit mining; tunnel driving and sinking a shaft with rotary drill in underground mining. (*45 minutes, silent*)

..... 17

Copper Refining

U.S. Bureau of Mines in cooperation with Phelps Dodge Corp., 1938. Converting anode slabs from smelter into chemically pure copper bars with starting-sheet copper cathodes in electrolytic tanks; inspecting and shipping bars to fabrication plant for making wire and other products. (*15 minutes, silent*)

..... 17

Copper Smelting

U.S. Bureau of Mines in cooperation with Phelps Dodge Corp., 1938. Converting copper ore and concentrates into metallic copper: crushing, sampling of ore and mixing with concentrates; roasting; melting in reverberatory furnaces; removal of impurities in converters and anode furnaces; and casting of metal into anodes. (*15 minutes, silent*)

..... 17

The Coppersmith: Flaring and Reducing

U.S. Department of the Navy, 1942. (Shipbuilding Skills Series) How to flare and reduce small and large tubing; devices used; techniques of annealing, bumping, cleaning and finishing. Supplementary filmstrip, same title, also available. (*MN 2346–a; 18 minutes*)

..... 41

The Coppersmith: Working Out Branches From A Line

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Cutting, working out, and installation process; marking, cutting and raising of the cup to conform with the branch, tack-welding and fitting, and installation of a saddle branch. Supplementary filmstrip, same title, also available. (*MN 2346–b; 22 minutes*)

..... 41

Corinth Canal

U.S. Economic Cooperation Administration, 1950. Historical and present day importance of Corinth Canal to Greece's prosperity; how it was wantonly destroyed during the war and recently rebuilt with American help in 1948; passage of Greek ship through canal for first time since war. (*10 minutes*)

..... 24

O Corpo Humano

U.S. Office of Inter-American Affairs, 1945. (Saude para as Americas) Portuguese version of "The Human Body." Spanish version, "El Cuerpo Humano," also available. (*9 minutes, color*)

..... 37

Corralling the Colorado

U.S. Bureau of Reclamation, 1951. How Hoover Dam tamed and Davis, Parker and Imperial Dams utilized the Colorado River; regional history and problems: deserts, droughts, and floods; primitive irrigation; modern dams; industries and hydropower. (*27 minutes*)

..... 18, 41

The Correct Use of the Official Telephone in the U.S. Army Administration

U.S. Department of the Army, 1944. Fundamentals in efficient placing, receiving, and handling telephone calls; use of directory; and rules of courtesy and enunciation. (*FB 104; 19 minutes*)

..... 41

Cotton at War: Cotton Industry

U.S. Department of the Army, 1944. Cotton's contribution to the war effort. Combat and training scenes show that everything that shoots, flies, floats, rolls,

or walks has cotton as an integral unit. (*WF 31; 13 minutes*)
..... **32, 41**

Cotton the Co-op Way
U.S. Department of Agriculture, 1947. Services (to members) of cotton cooperatives; ginning, credit purchasing of seed, feed, and other materials, pooling, grading, storage, and selling of bales. (*10 minutes*)
..... **2, 32, 41**

Countersinking, Counterboring, and Spotfacing
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Drill Press. Vertical Drill No. 2) How to drill holes in steel and cast iron; countersink holes in steel; counterbore holes in cast iron; and spotface holes in cast iron. Supplementary filmstrip, same title, also available. (*OE 48; 20 minutes*)
..... **32, 41**

The County Agent
U.S. Office of Inter-American Affairs, 1946. Some of the activities of a County Agent and his services to farmers—giving advice on soil conservation, helping plan a new barn, etc. Emphasizes cooperation among farmers. (*17 minutes*)
..... **32, 41**

County Government
U.S. Department of State, 1949. County government, Westchester County, N. Y.; election of officials; legislative, executive, and judiciary services and activities; interrelation of county, State, and Federal government; relationship of county residents to United Nations. Released through U.S. Office of Education for educational use in the United States. (*28 minutes*)
..... **32, 41**

Covering Hot and Cold Pipes
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipe Insulation No. 1) Materials used to insulate hot and cold pipes; how to insulate straight pipe; cover coupling, bend, elbow, valve, and flange; insulate cold pipes. Supplementary filmstrip, same title, also available. (*OE 109; 22 minutes*)
..... **32, 41**

Crash Fire Rescue
U.S. Department of the Navy, 1945. Causes of fire: fuel, heat, oxygen; how water, carbon dioxide and foam are extinguishing agents; trucks and associated equipment demonstrated: FFN0, FFN1, FFN2, FFN4 and FFN5. (*MN 5892; 23 minutes*)
..... **7**

The Crawl Stroke
U.S. Coast Guard, 1943. Basic principles of the stroke. The arm stroke, the kick, and breathing. Includes slow motion shots under water. (*8 minutes*)
..... **41**

Creative Leisure
U.S. Department of the Army, 1950. How Americans spend their leisure in pursuit of the arts. (*CAD; 33 minutes*)
..... **32, 41**

The Crime of Korea
U.S. Department of the Army, 1950. War correspondent's reports on Korea after liberation from Japan in 1945 and after Communist destruction and devastation of the country and its people in 1950. (*AFSR 125; 15 minutes*)
..... **12, 32, 41**

Criminal at Large
U.S. Public Health Service, 1945. (Malaria Control Series) Job applicant, assigned story of "Most Dangerous Criminal", pleases editor by reporting, with aid of entomologist, life cycle and crime trail of Anopheles quadrimaculatus. Freeze frame cartoons and drawings. Supplementary filmstrip, same title, also available. (*CDC 4–012; 13 minutes, color*)
..... **27**

Crop Insurance
U.S. Department of Agriculture, 1946. How farmers can protect their future through crop insurance against fire, flood, drought, insects, and other calamities. (*2 minutes*)
..... **32, 41**

The Crop That Never Fails
U.S. Department of Agriculture in cooperation with U.S. Department of the Treasury, 1946. How savings, especially regular purchase of savings bonds are excellent protection against future hard times—floods, drought, dust, disease, grasshoppers, inflation and depression. (*8 minutes*)
..... **32, 41**

Crossing at Night
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Exchange of signals and action of ships crossing; how to determine a ship's bearing from its running lights; whistle and danger signals for international and inland waters. (*MN 202–w; 19 minutes, color*)
..... **41**

Crossing Steam Vessels
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Whistle signals and rules for crossing for international and inland waters. (*MN 202–r; 15 minutes*)
..... **41**

Cuernavaca
U.S. Coordinator of Inter-American Affairs with cooperation of Tourist Department of Mexico and Mexican Tourist Bureau, 1943. Tourist view of Acapulco and Cuernavaca, resort towns, and Taxco, silver mining town. (*10 minutes, color*)
..... **32, 41**

El Cuerpo Humano
U.S. Office of Inter-American Affairs, 1945. (Salud para las Americas) Spanish version of "The Human Body." Portuguese version "O Corpo Humano," also available. (*9 minutes, color*)
..... **37**

Cuidado de la Madre
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Wise Parents: Healthy Babies." Portuguese version "Conselhos Para As Maes" also available. (*11 minutes, color*)
..... **37**

El Cuidado del Nino
U.S. Office of Inter-American Affairs, 1945. (Salud para las Americas) Spanish version of "Infant Care." Portuguese version "Como Ciudar Da Crianca" also available. (*9 minutes, color*)
..... **37**

Cummington Story
U.S. Office of War Information, Overseas Branch, 1945. Experiences of refugee family in New England town, their diffidence as newcomers, and their later absorption into the life of the community. (*21 minutes*)
..... **32, 41**

Curing Pork Country Style
U.S. Department of Agriculture, 1945. "Dry" and "brine" curing methods; chilling; proper amount of salt; time to absorb salt; smoking pork; use of ham in diet. (*20 minutes; b&w with color sequences*)
..... **32, 41**

Current and Electromotive Force
U.S. Department of the Navy, 1945. (Radio Technician Training Series. Elementary Electricity) Electron theory: arrangement of molecules; building up of current; conductors; electromotive force; resistance; chemical and mechanical sources of electromotive force. Supplementary filmstrip, same title, also available. (*MN 1540–t; 11 minutes*)
..... **7, 41**

Curtiss Electric, Disassembling the Hub and Blades
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) How to disassemble the spinner base, bulkhead and three blades of the Curtiss Electric propeller. (*TF 1–457; 14 minutes*)
..... **7**

Curtiss Electric, Disassembling the Power Unit
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) How to disassemble power unit of Curtiss electric propeller; tools required. (*TF 1–456; 25 minutes*)
..... **7**

Curtiss Electric, Reassembling the Hub and Blades
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) How to reassemble the hub, blades, bulkhead and spinner base. (*TF 1–460; 21 minutes*)
..... **7**

Curtiss Electric, Removal and Disassembly
U.S. Department of the Air Force, 1941. (Airplane Propellers Series) How to remove and disassemble Curtiss electric propeller from fighter airplane (P–40); tools used. (*TF 1–310; 10 minutes*)
..... **7**

Cutting a Dovetail Taper Slide
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 2) How to machine a dovetail taper slide on the vertical milling machine; use a rotary table in milling a taper; and mill to layout lines. Supplementary filmstrip, same title, also available. (*OE 73; 26 minutes*)
..... **32, 41**

Cutting a Forequarter of Beef
U.S. Department of the Army, 1943. (The Army Cook Series No. 3) How to trim, bone, and separate forequarter of beef into boneless cuts: steaks, roasts, and stews. (*TF 10–1135; 17 minutes*)
..... **41**

Cutting a Hindquarter of Beef
U.S. Department of the Army, 1943. (The Army Cook Series No. 2) How to trim, bone, and separate hindquarter of beef into boneless cuts. (*TF 10–1134; 14 minutes*)
..... **41**

Cutting a Keyway on End of a Finished Shaft
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Shaper No. 1) Use of a shaper in cutting a keyway in a steel shaft; how to select the cutting tools; secure the work in a vise; and set the length, position, and speed of the ram stroke. Supplementary filmstrip, same title, also available. (*OE 19; 13 minutes*)
..... **32, 41**

Cutting a Round End Keyway
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 3) How to cut a round end keyway in a steel shaft; align the spindle and workpiece by using a test bar; use a two-lip end mill to sink a hole in solid stock; set trip dogs and table stops; and check the finished dimensions of a round end keyway. Supplementary filmstrip, same title, also available. (*OE 74; 22 minutes*)
..... **32, 41**

Cutting a Short Rack
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 6) How to set up and align the workpiece on milling machine table; position table and workpiece in relation to the cutter; and rough- and finish-mill the workpiece. Supplementary filmstrip, same title, also available. (*OE 208; 18 minutes*)
..... **32, 41**

Cutting a Taper With the Compound Rest and With a Taper Attachment
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Engine Lathe No. 3) How to cut a steep taper with the compound rest and a small taper with the taper attachment. Supplementary filmstrip, same title, also available. (*OE 8; 11 minutes*)
..... **32, 41**

Cutting an External Acme Thread
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Engine Lathe No. 7) How to cut threads with and without using the threading dial, and finish-machine the threads to size. Supplementary filmstrip, same title, also available. (*OE 45; 16 minutes*)
..... **32, 41**

Cutting an External National Fine Thread
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Engine Lathe No. 5) Various shapes of threads and their uses; characteristics of the National Fine Thread; procedure used to cut such a thread on a lathe. Supplementary filmstrip, same title, also available. (*OE 10; 12 minutes*)
..... **32, 41**

Cutting an Internal Acme Thread
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 8) How to set up the lathe and cut an internal right-hand acme thread; grind and check the stocking and forming tools; and gage the finished threads. Supplementary filmstrip, same title, also available. (*OE 56; 22 minutes*)
..... **32, 41**

Cutting an Internal Taper Pipe Thread
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 9) How to use a taper attachment; bore a tapered hole to gage size for threading; thread a tapered hole to fit a gage; and compute pipe thread dimensions. Supplementary filmstrip, same title, also available. (*OE 57; 20 minutes*)
..... **32, 41**

Cutting and Boning a Forequarter of Beef
U.S. Office of Education, 1945. (Farm Work Series. Meat Cutting No. 1) How to chill beef; quarter it; trim the forequarter; cut wing, crosscut check, brisket, and chuck; and prepare meat for freezing or canning. Supplementary filmstrip, same title, also available. (*OE 456; 19 minutes*)
..... **32, 41**

Cutting and Boning a Hindquarter of Beef
U.S. Office of Education, 1945. (Farm Work Series. Meat Cutting No. 2) How to separate the round from loin and rump; cut the round; remove the tenderloin; separate sirloin and rump from shell loin; and prepare meat for freezing or canning. Supplementary filmstrip, same title, also available. (*OE 457; 17 minutes*)
..... **32, 41**

Cutting and Threading Pipe by Hand
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 2) How to use pipe cutter and pipe reamer; select and insert proper dies in stock; thread pipe by hand; test threads for fit; prepare fitted pipe for delivery; and care for tools. Supplementary filmstrip, same title, also available. (*OE 106; 12 minutes*)
..... **32, 41**

Cutting and Threading Pipe on a Power Machine
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 3) How to measure and cut pipe for fittings; ream pipe by machine; care for machinery used; and safeguard operator of machinery. Supplementary filmstrip, same title, also available. (*OE 107; 17 minutes*)
..... **32, 41**

Cutting Cove Molding and a Corebox
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 4) How to select stock for cove molding; cut and rip cove molding; select the proper blade for oblique cutting; cut a deep hollow. Supplementary filmstrip, same title, also available. (*OE 311; 19 minutes*)
..... **32, 41**

Cutting Grooves with Circular Saw Blades
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 3) How to set up the machine to cut grooves; cut grooves in stiles and rails; cut grooves for splines; cut stop channels in mirror frame members. Supplementary filmstrip, same title, also available. (*OE 320; 22 minutes*)
..... **32, 41**

Cutting Keyways
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Milling Machine No. 1) How to set up a shaft on the table of the milling machine for cutting a keyway at each end; select the proper cutter; determine the correct speed and feed; set the machine for the proper depth and length of cut. Supplementary filmstrip, same title, also available. (*OE 12; 15 minutes*)
..... **32, 41**

Cutting Lamb
U.S. Department of the Army, 1943. (The Army Cook Series No. 4) Bone structure of lamb; kitchen cuts, their relationship to each other and bones; proper cooking. (*TF 10–1136; 14 minutes*).
..... **41**

Cutting Teeth on a Worm Gear
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 9) How to set dividing head for specified indexing; position workpiece for gashing; gash the teeth on the workpiece; position workpiece under dead center of hob; mesh gashed gear with hob; and hob the teeth. Supplementary filmstrip, same title, also available. (*OE 211; 17 minutes*)
..... **32, 41**

Cutting Tenons and Segments
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 3) How to lay out and cut a tenon; prepare a jig to trim and miter segments; guide the jig, using a sliding miter gage. Supplementary filmstrip, same title, also available. (*OE 308; 15 minutes*)
..... **32, 41**

Cutting Threads With Taps and Dies
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 1) Cutting small threads with hand taps and dies. How to use a hand die to cut threads on a stud to fit in tapped holes. Supplementary filmstrip, same title, also available. (*OE 34; 19 minutes*)
..... **32, 41**

Cutting Veal and Pork
U.S. Department of the Army, 1943. (The Army Cook Series No. 5) How to divide side of veal into major cuts and prepare for cooking; divide pork into ham, loin, side, spareribs, and shoulder and use to best advantage. (*TF 10–1137; 13 minutes*)
..... **41**

Cutting With Carbide Tools. Part 1: Single Point
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 4) How to machine a steel forging on an engine lathe, using a single-point carbide tool. Supplementary filmstrip, same title, also available. (*OE 244; 19 minutes*)
..... **32, 41**

Cutting With Carbide Tools. Part 2: Milling Cutters
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 5) How to face-mill a steel forging with a carbide milling cutter. Supplementary filmstrip, same title, also available. (*OE 245; 15 minutes*)
..... **32, 41**

Cylinder Head
U.S. Department of the Navy, 1943. (Cooper Bessemer Diesel Engine Maintenance Series. Bench Work No. 4) How to inspect and recondition cylinder head. (*MN 2364–h; 11 minutes*)
..... **41**

Cylinder Head and Piston
U.S. Department of the Navy, 1943. (Cooper Bessemer Diesel Engine Maintenance Series. Bench Work No. 1) How to disassemble cylinder head and piston: inspect cover frame; check rocker arms; remove valves and crossheads, wedging piston, piston pin bolts, connecting rod, piston pin caps, and piston pin. (*MN 2364–e; 20 minutes*)
..... **41**

Cylinder Head Removal
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Disassembly) How to remove piston oil cooling tubes, cylinder head covers, test valve, rocker arm assemblies, fuel lines, injector linkage, injectors, and cylinder head. (*MN 3708–a; 6 minutes*)
..... **41**

The Day Is New
U.S. Coordinator of Inter-American Affairs, 1942. A day in Mexico City from dawn to dark; daily pursuits similar to those found in middle-class American city life. (*10 minutes*)
..... **32, 41**

Day of Battle
U.S. Office of War Information, Domestic Branch, 1944. How an aircraft carrier was built and destroyed in battle against the Japanese in the South Pacific. Camera record of American iron ore, steel, tungsten, manganese, and courage, brought together to make an important day in American history. (*10 minutes*)
..... **32, 41**

Day's Work of a Navigator: At Sea
U.S. Department of the Navy, 1950. General duties of navigator on a destroyer. Continued in "Day's Work of a Navigator: In Pilot Waters." (*MN 6742–b; 15 minutes*)
..... **41**

Day's Work of a Navigator: In Pilot Waters
U.S. Department of the Navy, 1950. Continues material in "Day's Work of a Navigator: At Sea." Additional duties. (*MN 6742–c; 13 minutes*)
..... **41**

D-Day Convoy
U.S. Department of the Army, 1948. (Historical Reports Series) Postwar recapitulation of activities prior to and including D-day; how American troops were moved from all parts of England to embarkation ports for Normandy invasion. (*HR–B–15; 19 minutes*)
..... **12, 32, 41**

D-Day Minus One
U.S. Department of the Air Force, 1945. Operations of the 82nd and 101st Airborne Divisions; how paratroops, glider and troop carrier crews went into France to spearhead the attack before the main invasion. (*SFP 158; 20 minutes*)
..... **11, 32, 41**

DDT
U.S. Department of the Navy, 1944. (Medicine in Action Series, No. 5) Use of DDT as insecticide and larvicide; how mixed effects are obtained; precautions to be observed; dispersal methods, in emulsion, oil, or dust solutions, and areas. (*MN 3726–e; 16 minutes, color*)
..... **41**

DDT as a Mosquito Larvicide
U.S. Public Health Service, 1947. (Malaria Control Series) Hand spraying DDT in mosquito larviciding; mixture of solution; equipment, its functions, care, and precautions in use; approved application practices; and advantages of DDT. (*CDC 4–035.2; 17 minutes*)
..... **27, 41**

DDT as a Mosquito Larvicide
U.S. Public Health Service, 1947. (Malaria Control Series) Hand spraying DDT in mosquito larviciding: mixture of solution; equipment, its functions, care, and precautions in use; approved application practices and advantages of DDT. Detailed version for spray crews. (*CDC 4–035; 25 minutes*)
..... **27**

DDT in the Control of Household Insects
U.S. Department of the Army, 1948. Responsibilities of Corps of Engineers and Medical Department; how to use three forms of DDT and equipment to kill houseflies, cockroaches, and bedbugs; habits of these insects. (*TF 8–1468; 17 minutes*)
..... **32, 41**

Dead Out
U.S. Department of Agriculture, 1948. Dramatization of dangers of brush burning without proper safety precautions;

typical disasters recounted by a veteran "timber cruiser"; right and wrong brush burning procedures. Produced in cooperation with State Foresters of the Southern States. (*20 minutes, color*)

..... **3, 32, 41**

Dead Reckoning: Air

U.S. Department of the Navy, 1944. (Navigation Series) Ground track, air track, wind effect, correction angle, drift angle, establishment of wind direction and velocity by grid method and drift method. College level. (*MN 83–j; 34 minutes*)

..... **7, 41**

Dead Reckoning, Plotting, and Celestial Lines of Position. Parts 1 and 2

U.S. Department of the Navy, 1943. (Navigation Series) Basic plan of Mark III board, animating a small scale problem as it is worked out on the board; geographic position and solution of wind problem. College level. (*MN 83–g; 40 minutes*)

..... **7, 41**

December 7th

U.S. Department of the Navy, 1943. Destruction of planes, hangars, ships, loss of lives and salvaging of some of the battle scarred ships after the attack of the Japanese on December 7, 1941. (*MN 2868; 34 minutes*)

..... **41**

A Decision for Bill

U.S. Department of Agriculture, 1947. Career possibilities for scientists, technicians, administrators, and other college-trained personnel in the varied activities of the U.S. Department of Agriculture. *24 minutes, color*)

..... **32, 41**

The Deck: Setting a Web Frame and a Transverse Beam

U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 6) How to square a web frame with the frame and buttock lines; shore up a transverse deck beam; fair the transverse beam to the centerline and frame line of the deck. Supplementary filmstrip, same title, also available. (*OE 29; 17 minutes*)

..... **32, 41**

Deck Girders: Subassembly

U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 5) Use of transverse and longitudinal girders in hull structures; how to fit, weld, and rivet stiffening brackets to a transverse girder and to a longitudinal girder. Supplementary filmstrip, same title, also available. (*OE 28; 15 minutes*)

..... **32, 41**

Deck Plates: Regulating and Setting

U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 10) How to mark off the centerline, frame lines, and buttock lines on deck girders; line up deck plates to the reference lines; fit square, scarfed, and V-type butt joints; hold plates flush for welding. Supplementary filmstrip, same title, also available. (*OE 33; 16 minutes*)

..... **32, 41**

Deep Waters

U.S. Department of the Army, 1950. Importance of deep-water harbor channels through a study of Hampton Roads, Virginia, the world's largest roadstead, including ports of Norfolk, Newport News, Portsmouth, and Hampton. (*21 minutes, color*)

..... **13**

Defense Against Invasion

U.S. Coordinator of Inter-American Affairs, 1943. How vaccination makes the body immune from disease. Animated cartoons. Portuguese version "Defesa Contra Invasao" and Spanish version "La Vacuna O Defensa Contra La Invasion" also available. (*12 minutes, color*)

..... **32, 37**

Defense of Antwerp Against the V-1

U.S. Department of the Army, 1947. How Antwerp, liberated after four years of German occupation, was battered by the V–1 bomb; how the port was saved by Allied gunners using a shifting de-

fense strategy, Antwerp X. (*M 1286; 21 minutes*)
..... 41

Defesa contra Invasao
U.S. Coordinator of Inter-American Affairs, 1943. Portuguese version of "Defense Against Invasion." Spanish version "La Vacuna O Defensa Contra La Invasion" also available. (*12 minutes, color*)
..... 37

Dental Amalgam Failure Caused By Moisture Contamination
U.S. National Bureau of Standards in cooperation with Research Council of the American Dental Association, 1948. How to prevent contamination in dental amalgam. (*15 minutes, color*)
..... 9

Denture Resin
U.S. National Bureau of Standards in cooperation with Research Council of the American Dental Association, 1949. How impurities, pressure, temperature, rate of curing, mold surfaces, and water content affect dimensional accuracy and stability of acrylic resin dentures. Denture-processing technics based on National Bureau of Standard's research. (*18 minutes, color*)
..... 9

Derivation of Pascal's Law. Part 1
U.S. Department of the Navy, 1943. (Elementary Hydraulics Series) Importance of hydraulic power aboard ship; proves oil lighter than water; explains density, pressure, and force and how to determine each in a given amount of fluid. (*MN 1730–a; 16 minutes*)
..... 7, 41

Derivation of Pascal's Law. Part 2
U.S. Department of the Navy, 1943. (Elementary Hydraulics Series) Proves that liquids transfer force equally to all parts of container; explains operation of several types of pressure gauges; reviews Pascal's law. (*MN 1730–b; 16 minutes*)
..... 7, 41

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Descriptive Geometry: Finding the Lines of Intersection Between Two Solids
U.S. Department of the Navy, 1947. Geometric features of cones and cylinders; generating elements and elementary intersections; how draftsman locates lines of intersection on H, V, and S views of cone cylinder combination. (*MN 5344–a; 22 minutes*)
..... 41

The Desert People
U.S. Bureau of Indian Affairs, 1941. How Papago Indians live in Southern Arizona, using all available resources, even farming and raising cattle on the arid desert. (*25 minutes, color*)
..... 34

Designing a Pattern for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a patternmaker studies a drawing for a single-cylinder water-cooled motor block; visualizes the shape of the casting; plans the general shape of the pattern; checks on core support; and plans the core boxes. Supplementary filmstrip, same title, also available. (*OE 337; 15 minutes*)
..... 32, 41

Designing Core Boxes for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a patternmaker visualizes the water jacket, port cores, and the core in a mold; then designs the ram-up core and set-up core. Supplementary filmstrip, same title, also available. (*OE 338; 12 minutes*)
..... 32, 41

A Destructive Invader
U.S. Department of Agriculture, 1949. (White Pine Blister Rust Series) Value of white pine forests of eastern Washington, Idaho, and Montana to logging, milling, and manufacturing industries; nature and danger of blister rust disease; duties

of blister rust control workers. (*13 minutes, color; also b&w*)
..... **1, 32, 41**

Developing Cooperation
U.S. Department of the Navy, 1945. (Supervision Series) Right and wrong ways to supervise; cooperation among workers. (*MN 3425–c; 15 minutes*)
..... **32, 41**

Developing the Negative
U.S. Department of the Navy, 1948. (Fundamentals of Photography Series) Fundamentals of still- and motion-picture photography. (*MN 5386; 16 minutes*)
..... **32, 41**

Development and Characteristics of Atmospheric Waves
U.S. Department of the Air Force, 1940. (Modern Weather Series. Theory and Structure of a Storm) Restoration of equilibrium in the atmosphere by outbreaks and surges from polar front; development of warm and cold fronts and occluded fronts; progress of a typical atmospheric wave. (*TF 1–134; 15 minutes*)
..... **7, 32, 41**

Diary of a Sergeant
U.S. Department of the Army, 1945. Treatment of amputee in Army hospital and his rehabilitation, including skillful manipulation of his artificial arms and hands. (*M 1129; 22 minutes*)
..... **32, 41**

Diesel: The Modern Power
U.S. Bureau of Mines in cooperation with General Motors Corp., 1950. Construction and operation of diesel engine; early methods of making fire; construction and operation of four-stroke engine and improved two-cycle engine; applications of diesel power in industry. (*21 minutes*)
..... **17**

The Diesel Engine
U.S. Department of the Navy, 1942. How ignition may be achieved by compression; basic Diesel engine types commonly used in submarines; forms of air headers and fuel injectors. Introductory survey film. (*MN 42–a; 28 minutes*)
..... **32, 41**

The Diesel Engine: Scavenging and Supercharging Diesel Engines
U.S. Department of the Navy, 1943. Operation of two-stroke cycle single and double acting engines and opposed piston engines; method of scavenging and supercharging air. Animation and straight photography. (*MN 42–b; 16 minutes*)
..... **41**

Diesel Engine Fuel Systems
U.S. Department of the Navy, 1942. Structure of Diesel fuel systems; parts and operation of injectors and fuel pumps; Bosch, General Motors, and Excello equipment. (*MN 46–a; 40 minutes*)
..... **41**

Diesel Engine Governors. Part 1: Woodward Governors
U.S. Department of the Navy, 1942. (Diesel Engine Governors Series) Operation of overspeed, overspeed trip, and regulating governors. Straight photography and cross-sectional animation. (*MN 44–a; 12 minutes*)
..... **41**

Diesel Engine Governors. Part 2: GM Series 71, Limiting Speed Mechanical Governor
U.S. Department of the Navy, 1943. (Diesel Engine Governors Series) Three main assemblies of the governor and their functions; operation of the manual fuel control; action of the governor through low, intermediate, and high speed ranges. (*MN 44–b; 12 minutes*)
..... **41**

Diesel Engine Marquette Hydraulic Governors: Basic Hydraulic Governor
U.S. Department of the Navy, 1943. (Diesel Engine Governors Series. Marquette Governor No. 1) Function of Marquette hydraulic governor; basic construction; operation of principal parts of hydraulic system. Schematic animation. (*MN 2598–a; 17 minutes*)
..... **41**

Diesel Lubrication and Cooling Systems
U.S. Department of the Navy, 1942. Parts of Diesel lubricating and cooling systems and how they work in relation to each other. Diagrams, animation, and straight photography. (*MN 45–a; 9 minutes*)
..... **41**

Diesel Lubrication and Cooling Systems: Lubrication of the GM-71 Series Engines
U.S. Department of the Navy, 1943. Course of oil through the engine; how it lubricates each component part; and the working principle of the ventilation system. Animation: (*MN 45–b; 12 minutes*)
..... **41**

Dimpling and Countersinking
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 4) How dimpling and countersinking prepare metal for flush riveting; how to operate a dimpling machine; and countersink work for flush rivets. Supplementary filmstrip, same title, also available. (*OE 139; 21 minutes*)
..... **32, 41**

The Diode: Principles and Applications
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 2) Principles of electron flow across a gap; basic features of the diode tube; control of electron flow in the tube; photoelectric cells; X-ray tubes; the diode as a rectifier. Animation. Supplementary filmstrip, same title, also available. (*OE 176; 17 minutes*)
..... **32, 41**

Direct Current Controllers
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 1) Shunt motors and direct current controllers in operation; a direct current faceplate controller connected to a shunt motor. Animation. Supplementary filmstrip, same title, also available. (*OE 388; 15 minutes*)
..... **32, 41**

Direction, Orientation, and Location with Compass
U.S. Department of the Army, 1945. (Basic Map Reading Series No. 3) How compass functions; differences between true magnetic and compass north; how to compute true north, and orient compass with map to determine course. (*TF 21–2073; 34 minutes*)
..... **41**

Direction, Orientation and Location Without a Compass
U.S. Department of the Army, 1945. (Basic Map Reading Series No. 4) How to compute distance, locate objects on map, use horizontal and vertical lines, map symbols for different types of roads, road crossings, bridges, fords, ferries, and buildings; and use sun and stars to determine a correct course. (*TF 21–2074; 22 minutes*)
..... **41**

Disassembling the Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to remove the oil sump, valve tappet, and gear case cover assemblies; separate crankcase; remove crankshaft assembly and camshaft; disassemble crankshaft and gear case cover assemblies. Supplementary filmstrip, same title, also available. (*OE 268; 13 minutes*)
..... **32, 41**

Disassembly
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to inspect the blower rotors and pistons, remove head and scrape wear ridge; removal of connecting rod bearing; and pulling of one piston and one liner in piston assembly. (*MN 3707–a; 35 minutes*)
..... **41**

Disassembly. Part 1
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Main-

tenance Series) How to disassemble Cooper Bessemer diesel engine for overhaul or maintenance; tools used. Specifically for diesel machinists' mates. (*MN 2364–a; 15 minutes*)
..... 41

Disassembly. Part 2
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series) How to disassemble Cooper Bessemer diesel engine for overhaul or maintenance; tools used; review of important steps in disassembly. Specifically made for diesel machinists' mates. (*MN 2364–b; 14 minutes*)
..... 41

Disassembly of the 8-268A Engine
U.S. Department of the Navy, 1942. (Progressive Maintenance Diesel Propulsion Engine Series) How to remove air lines, manifold, rocker arm assembly, piston lever, injector, and cylinder head; precautions. (*MN 209–a; 27 minutes*)
..... 41

Discipline: Giving Orders
U.S. Department of the Navy, 1943. How to give clear orders and maintain office discipline; results of gaining workers' confidence and of installing fear in employees. (*MN 2088–a; 15 minutes*)
..... 7, 32, 41

Discipline: Reprimanding
U.S. Department of the Navy, 1943. How supervisors should reprimand employees; how to increase office efficiency and production through correct disciplinary methods. (*MN 2088–b; 9 minutes*)
..... 7, 32, 41

Discussion, Technique
U.S. Department of the Army, 1950. How to conduct discussion hour: forum, symposium, debate, panel, conference, and committee; how to stimulate independent thinking and free interchange of ideas by enlisted personnel. (*AFIF 1; 29 minutes*)
..... 41

Disease and Personal Hygiene
U.S. Department of the Army, 1948. Ways in which spread of disease is caused by careless personal hygiene of food handlers; sanitary precautions and remedies. (*TF 8–1501; 17 minutes*)
..... 41

Disenteria
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Prevent Dysentery." Spanish version "Disenteria" also available. (*7 minutes, color*)
..... 37

Disenteria
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Prevent Dysentery." Portuguese version "Disenteria" also available. (*7 minutes, color*)
..... 37

Disorientation Crashes
U.S. Department of the Navy, 1947. (Flight Safety Series) How to avoid disorientation crashes. Cartoon. (*MN 4353–c; 5 minutes*)
..... 7

D.C. Motor. Part 1: Mechanical Overhaul
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 1) How to test for electrical and mechanical faults; dismantle D.C. motor; turn the commutator; repair and replace field coils; assemble the motor; adjust and make final tests. Supplementary filmstrip, same title, also available. (*OE 392; 20 minutes*)
..... 32, 41

D.C. Motor. Part 2: Rewinding
U.S. Office of Education, 1945. (Electrical Work Series: Motor Maintenance and Repair No. 2) How to dismantle and clean an armature core; determine commutator pitch; reinsulate the core; insert coils; band an armature; shape coil ends; lay in and solder leads; balance and impregnate the armature; turn a commutator. Supplementary filmstrip, same title, also available. (*OE 393; 37 minutes*)
..... 32, 41

Ditching Without Hedging
U.S. Department of the Air Force, 1943. How a plane may be ditched in water in such a manner that the pilot has time to escape: sea recognition, wind velocity, proper trim, speed and approach with single and multi-engined RAF planes. British film using models, animated diagrams and action shots. (*TF 1–3634; 22 minutes*)
..... 7

Divide and Conquer
U.S. Department of the Army, 1943. How Hitler enslaved the smaller democracies to his west—Denmark, Norway, Holland, and Belgium; how his armies invaded France and drove the British from the continent at Dunkirk. Includes captured German film. (*OF 3; 58 minutes*)
..... 32, 41

Dividends for the Future
U.S. Department of the Air Force, 1947. Civilian by-products of the Air Force Research and Development program: controlled ground approach, electric blankets, fabrics, precision cameras, etc. (*SFP 231; 18 minutes*)
..... 11, 32, 41

The Diving Dress
U.S. Department of the Navy, 1944. (Deep Diving Series) Characteristics of parts of diving dress; preparation and inspection of suit for diving; duties of tenders; how to avoid injury from underwater pressure. (*MN 105–b; 32 minutes, silent*)
..... 41

Do Unto Animals
U.S. Department of Agriculture, 1939. Improved shipping methods sponsored by U.S. Department of Agriculture and National Livestock Loss Prevention Board to eliminate loss of animals during transit to market. (*21 minutes*)
..... 32, 41

Do You Know What the Army Air Force Is?
U.S. Department of the Air Force, 1947. How the Air Force belongs to and is composed of all Americans; activities and opportunities in the Air Force. Musical short subject. Revision. (*SFP 115; 8 minutes*)
..... 11, 32, 41

Docking with Keel and Bilge Blocks
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Procedures for docking; flooding of the dock; final securing. Animation, actual photography. (*MN 2352–a; 15 minutes*)
..... 41

The Doctor
U.S. Office of Inter-American Affairs, 1946. Small-town Ohio doctor and his daily activities—examining school children, visiting patients, relaxing with his family. Emphasizes close doctor-patient relationships. (*14 minutes*)
..... 32, 41

Doctor For Ardaknos
U.S. Economic Cooperation Administration, 1950. How ECA sponsored public health program in Greece provides more doctors and nurses, better equipped hospitals and improved sanitary conditions for the Greek people. American version. (*16 minutes*)
..... 24

Dog of the Seven Seas
U.S. Coast Guard, 1947. Story of ship's mascot, Sinbad and his life aboard Coast Guard Cutter *Campbell*, in Pacific, Japan, and New York. (*10 minutes*)
..... 21

Don't Be a Sucker
U.S. Department of the Army, 1947. (Educational Film Series No. 6) Demonstrates how racial and religious intolerance can be used to divide and weaken a nation. Revision. (*EF 6; 24 minutes*)
..... 32, 41

Doping Technique
U.S. Department of the Navy, 1942. Necessity for dope in airplane fabric covering; techniques of brushing, spraying, sanding, hand rubbing and waxing. (*MN 66; 10 minutes*)
..... 7

Double Carrick Bend
U.S. Coast Guard, 1943. Why double carrick is commonly used to pin two hawsers and how to tie. (*3 minutes*)
..... 41

Double Ram Vertical Surface Broaching
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations On a Broaching Machine No. 3) How to assemble broaching inserts; mount and adjust the work fixtures; set trip dogs for the ram stroke; measure the workpiece after trial broaching; and surface-broach at a production rate. Supplementary filmstrip, same title, also available. (*OE 238; 30 minutes*)
..... 32, 41

Double Your Money From Traps
U.S. Bureau of Indian Affairs, 1949. How, when and why to trap in proper season; how to skin muskrat and beaver; role trapper plays in fur industry. (*20 minutes, color*)
..... 34

Down Where North Begins
U.S. Coordinator of Inter-American Affairs, 1943. Geographic, economic, and social aspects of Ecuador: mountains, jungles, Riobamba, and Quito; farms, Indian handicrafts, volcanoes; pre-Inca and Inca ruins. (*22 minutes, color*)
..... 32, 41

Drafts and Slings
U.S. Department of the Army, 1943. (Military Stevedoring Series No. 4) How to use sling or cargo net pallet sling, and pie plate in handling cargo from docks and warehouses to holds. (*TF 55–1117; 16 minutes*)
..... 41

Drag
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. How streamlining and small frontal area minimizes "parasite" drag and long narrow wings cut down "induced drag". How "skin friction" operates. (*15 minutes*)
..... 7

Drainage
U.S. Department of the Army, 1943. (Military Roads Series No. 2) Importance of drainage; providing necessary crown. Methods of constructing ditches, open and covered culverts. (*TF 5–1194; 11 minutes*)
..... 41

The Drama of Steel
U.S. Bureau of Mines in cooperation with the Inland Steel Co., 1946. Uses of steel; historic and modern production methods; modern open pit mining and furnaces; open hearth in animation; processes in various types of mills, blooming, cold reduction, tin, billet, and bar mills. (*34 minutes*)
..... 17

Drawing, Stretching, and Stamping
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1944. (How To Form Aluminum Series) Techniques of sheet-metal working; properties of aluminum alloys; purpose of heat-treating and refrigerating metals; selection of metal and use of tools. (*22 minutes*)
..... 17

The Drill Press
U.S. Office of Education, 1945. (Machine Shop Work Series. Basic Machines) Functions, characteristics, and basic operations of the drill press. Supplementary filmstrip, same title, also available. (*OE 71; 10 minutes*)
..... 32, 41

Drilling a Hole in a Pin
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Drill Press. Sensitive Drill No. 1) How to lay out two holes at each end of a short 1¼ inch diameter pin; and drill the holes on the sensitive drill press. Supplementary filmstrip, same title, also available. (*OE 46; 10 minutes*)
..... 32, 41

Drilling and Tapping Cast Steel
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Drill Press. Radial Drill No. 1) How to

drill and tap blind holes in cast steel on a radial drill, using a jig with a loose drill bushing to locate the holes. Supplementary filmstrip, same title, also available. (*OE 22; 19 minutes*)
..... **32, 41**

Drilling, Boring, and Reaming Work Held in Chuck
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Engine Lathe No. 4) Cutting a tapered hole in a forged gear blank, using the taper attachment; centering the piece in a chuck, rough-facing, drilling, taper-boring, and reaming. Supplementary filmstrip, same title, also available. (*OE 9; 11 minutes*)
..... **32, 41**

Drilling, Tapping, Stub-Boring, and Reaming
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 6) How to drill and machine-tap a hole; use a core drill; use a stub-boring bar for rough- and finish-boring and counterboring; use an adjustable reamer and a floating reamer. Supplementary filmstrip, same title, also available. (*OE 230; 22 minutes*)
..... **32, 41**

Drilling in Metal, Wood and Plastics
U.S. Department of the Navy, 1942. Six basic drilling steps; how to lay out wood and plastics with drill press, electric and hard drills. (*MN 142; 21 minutes*)
..... **7, 41**

Drilling to a Layout and Spot-Facing Cast Iron
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Drill Press. Radial Drill No. 2) How to drill to a layout and spot-face the underside of a valve body flange, using the radial drill. Supplementary filmstrip, same title, also available. (*OE 23; 15 minutes*)
..... **32, 41**

Drilling with Portable Drill Motors
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 3) How to use a portable electric drill motor; select a drill; check a drill for true running; and install and use a special attachment for drilling. Supplementary filmstrip, same title, also available. (*OE 138; 17 minutes*)
..... **32, 41**

Drinking Water
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) Mac Gillicuddy demonstrates how *not* to use canteen of water on a march; disastrous results of drinking water from untested stream; importance of drinking only water, chlorinated or drawn from a lister bag. (*MN 2808–c; 5 minutes*)
..... **41**

Driving and Bucking Rivets
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 5) How to set up and adjust a rivet gun; drive and buck rivets; and how a riveter and a bucker work together as a team. Supplementary filmstrip, same title, also available. (*OE 140; 18 minutes*)
..... **32, 41**

Driving the Semi-Trailer
U.S. Department of the Army, 1948. Checking procedure for safety or protection of equipment; how to back trailer up to platform for loading or unloading. (*TF 55–1478; 19 minutes*)
..... **41**

Duck Farming
U.S. Department of Agriculture, 1934. Ducks for market: Peking, Muscovy, Runner, and Mallard; brooding, feeding, and marketing methods; operation of large Long Island duck farm. (*13 minutes, silent*)
..... **32, 41**

Duties of a Dental Technician
U.S. Department of the Navy, 1944. Duties of dental technician as an aid to dentist, responsibilities in the lab-

oratory and general duties. (*MN 2607; 22 minutes, color*)
..... **41**

Dynamite
U.S. Public Health Service, 1944. (Malaria Control Series) Preliminary activities and actual blasting to drain Ward's Brake, huge quagmire in the bottom lands of Arkansas, as part of malaria control program. Animation. 2nd ed. (*CDC 4–029.1; 12 minutes*)
..... **27**

E Facil Comer Bem
U.S. Institute of Inter-American Affairs, 1946. (Salude para as Americas) Portuguese version of "Planning for Good Eating." Spanish version "Es Facil Comer Bien" also available. (*8 minutes, color*)
..... **37**

The Earth
U.S. Department of the Navy, 1942. (Navigation Series) Arrangement and meaning of the poles, great circles, parallels, meridians, longitude, latitude, nautical mile, and departure. College level. (*MN 83–a; 20 minutes*)
..... **7, 32, 41**

Earth Movers: Bulldozers, Steamshovels, and Cranes
U.S. Department of the Army, 1944. Heavy equipment in use by the Corps of Engineers and the Seabees on all fronts. How they build bridges, roads, and airfields under fire. (*WF 21; 14 minutes*)
..... **41**

Earth Rolled Dams
U.S. Department of the Army, 1950. How Corps of Engineers constructs earth-rolled dams; methods and procedures. (*25 minutes, color*)
..... **13**

Edition Tokyo
U.S. Department of the Army, 1950. How Japanese free press, developed under U.S. Occupation Forces, informs citizens of world-wide and local events to foster democratic public opinion; story of typical newspaper, the Yomiuri. (*M 7744; 9 minutes*)
..... **12, 41**

Education for Peace
U.S. Department of the Army, 1950. How the American Friends Service Committee works in behalf of world peace and understanding through international seminars and work camps. (*CAD; 11 minutes*)
..... **32, 41**

The Educational System of Japan
U.S. Department of the Army, 1945. Government exploitation of education: how agriculture, ethics, health, science, etiquette, mathematics, and art served as indoctrination for pre-war Japanese nationalism. (*M 1064; 36 minutes*)
..... **41**

The Effects of the Ionosphere on Radio Wave Propagation
U.S. Department of the Army, 1950. Characteristics of propagated radio waves at various frequencies; ground and sky waves, effect of ionosphere on sky waves; effects of favorable and unfavorable atmospheric conditions. (*TF 11–1632; 30 minutes*)
..... **41**

Eggs and Miracidia of Schistosoma Mansoni
U.S. Public Health Service, 1947. (Schistosomiasis Series) S. mansoni eggs hatch in fresh water, miracidia search for a suitable snail intermediate host, attack and penetrate the snail's skin. (*CDC 4–067; 3 minutes*)
..... **27**

The 82d Airborne Division
U.S. Department of the Army, 1948. History of 82d Airborne Division in both World Wars; training prior to combat; fighting in Sicily, Salerno, Anzio, Normandy, Holland, and Battle of the Bulge; Fifth Avenue victory parade. (*M 1426; 21 minutes*)
..... **32, 41**

El Centro de Salubridad
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Your Health Center." Portuguese version "A Policlyinica Da Sua Cidade" also available. (*8 minutes, color*)
..... **37**

The El Isleo-Eastern Glade Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Title self-explanatory. (*MN 202–s; 5 minutes, color*)
..... **41**

Elaboraçâo de uma Peça no Prato ou Bucha
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabalho de oficina mecanica. Usos de tomo de precisao) Portuguese version of "Machining Work Held in Chuck: Use of Reference Surfaces." Spanish version, "Elaboración de Una Pieza en El Plato," also available. (*OE 60–Port.; 24 minutes*)
..... **32, 41**

Elaboración de una Pieza en el Plato
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabajo de taller mecánico. Usos del tomo de precisión) Spanish version of "Machining Work Held in Chuck: Use of Reference Surfaces." Portuguese version "Elaboraçâo De Uma Peça No Prato Ou Bucha," also available. (*OE 60–Span; 24 minutes*)
..... **32, 41**

Elastic Impression Materials in Crown, Bridge and Inlay Prosthesis
U.S. Department of the Navy, 1949. Title self-explanatory. (*MN 2050–b; 25 minutes, color*)
..... **41**

Electrical Circuit Faults
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to test for and locate common circuit faults, grounds, resistance deterioration, and interference in circuits. Supplementary filmstrip, same title, also available. (*OE 375; 19 minutes*)
..... **32, 41**

The Electron: An Introduction
U.S. Office of Education, 1944. (Engineering Series. Electronics No. 1) Nature of electrons; electron flow in solid conductors; electromotive force; types and control of electron flow; electron flow and magnetic fields. Animation. Supplementary filmstrip, same title, also available. (*OE 175; 16 minutes*)
..... **32, 41**

Elementary Optics in Photography
U.S. Department of the Navy, 1948. (Fundamentals of Photography Series) Fundamentals of still- and motion picture photography. (*MN 5384; 18 minutes*)
..... **32, 41**

Elementary Tactics of Lifesaving
U.S. Department of the Navy, 1942. How to gain control of victim by surface and underwater approach. (*MN 1319-b; 22 minutes*)
..... **7**

Elements of Electricity
U.S. Department of the Army, 1942. (Electricity and Magnetism Series No. 1) Analysis of matter, molecule to atom; elementary explanation of proton and electron and their relationship to electricity. (*TF 11–622; 14 minutes*)
..... **41**

Elements of Electricity as Applied to Ignition Systems
U.S. Department of the Air Force, 1941. (Aircraft Engines Series) Elementary phenomena in electricity and magnetism; application of these principles to engine ignition systems. (*TF 1–136; 28 minutes*)
..... **7, 32, 41**

Elements of Hardening
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 1) How steel is quench-hardened; how the structure and hardness of steels with different carbon con-

tent change at progressive quench-hardening stages; an iron-carbon diagram. Supplementary filmstrip, same title, also available. (*OE 170; 15 minutes*)

..... **32, 41**

Elements of Surface Hardening
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 3) Shows how steel is pack and gas carburized; a thin, hard case obtained by cyaniding; nitriding used to obtain a very hard case; how steel is flame and induction hardened. Supplementary filmstrip, same title, also available. (*OE 172; 14 minutes*)

..... **32, 41**

Elements of Tempering, Normalizing, and Annealing
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 2) How steel is tempered; how the structure, toughness, and hardness of plain carbon steel change at progressive tempering stages; how steel is normalized and annealed. Supplementary filmstrip, same title, also available. (*OE 171; 22 minutes*)

..... **32, 41**

Elevation and Windage
U.S. Department of the Army, 1943. (Rifle Marksmanship with the M–1 Rifle, Preparatory Training Series No. 5) Principles of elevation and left and right windage; adjusting front and rear sights to normal deflections of elevation and windage; determining wind velocity and elevation to obtain "bulls eyes." (*TF 7–1100; 34 minutes*)

..... **41**

Elevation, Distance, and Grid
U.S. Department of the Army, 1945. (Basic Map Reading Series No. 2) Explains symbols for contour lines and how to interpret concave and convex lines, estimate elevation, compute distance between objects with graphic scale, and use grid to transmit information. (*TF 21–2072; 27 minutes*)

..... **41**

The Elliott-Buchi Turbocharger for Diesel Engines: Disassembly
U.S. Department of the Navy, 1944. How to disassemble the turbocharger; tools used. (*MN 2365–a; 20 minutes*)

..... **41**

The Elliott-Buchi Turbocharger for Diesel Engines: Maintenance
U.S. Department of the Navy, 1944. Maintenance procedure for turbocharger; frequent and periodic checks needed. (*MN 2365–c; 23 minutes*)

..... **41**

The Elliott-Buchi Turbocharger for Diesel Engines: Reassembly
U.S. Department of the Navy, 1944. How to reassemble the turbocharger; tools used. (*MN 2365–b; 28 minutes*)

..... **41**

Emergency Landing on Land
U.S. Department of the Navy, 1947. (Primary Flight Training Series) Do's and Don'ts of emergency landings. Cartoon. (*MN 4353–k; 6 minutes*)

..... **7**

Emergency Rescue Equipment. Part 1: Life Jackets and Belts
U.S. Department of the Navy, 1944. How to check, adjust and wear 4 types of Naval life jackets and belts: Kapok lifejacket; kapok knapsack lifebelt; oral inflation lifebelt; rubber vest. (*MN 2829–a; 20 minutes*)

..... **41**

Emergency Rescue Equipment. Part 2: Floats and Floater Nets
U.S. Department of the Navy, 1944. How to inspect and launch float and floater net equipment; launching drill; maintenance of equipment. (*MN 2829–b; 11 minutes*)

..... **41**

Employing Blind Workers in Industry
U.S. Office of Education with the cooperation of U.S. Office of Vocational Rehabilitation, 1944. (Problems in Supervision Series) Actual instances of blind workers performing jobs in industry; types of work which can be done by

blind persons; role of employment specialists in placing and training blind workers. (*OE 165; 17 minutes*)
..... **32, 41**

Employing Disabled Workers in Industry
U.S. Office of Education, 1946. (Problems in Supervision Series) Dramatic instances of disabled workers handling skilled industrial jobs; one-handed milking machine operator, one-handed machinist, one-armed electric welder, one-handed watch repairman, poliomyelitis-crippled jewelry maker, one-handed secretary. (*OE 399; 20 minutes*)
..... **32, 41**

O Emprêgo do Suporte Fixo
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabalho de oficina mecânica. Usos do tômo de precisão) Portuguese version of "Using a Steady Rest." Spanish version "El Uso del Soporte Fijo", also available. (*OE 62–Port.; 25 minutes*)
..... **32, 41**

Empress of Ireland-Storstad Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Title self-explanatory. (*MN 202–w; 5 minutes*)
..... **41**

Endfeed Grinding a Tapered Pin
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 5) How to use cams in tapering the regulating wheel and grinding wheel; rough- and finish-end-feed grind; use a taper collet gage and Prussian blue to check work; redress the wheels for the finish grind; and correct taper error of less than .0005. Supplementary filmstrip, same title, also available. (*OE 89; 26 minutes*)
..... **32, 41**

Enemas
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to give retention and evacuant enemas; equipment; after care of patient. (*MN 1511–v; 20 minutes*)
..... **41**

The Enemy Bacteria
U.S. Department of the Navy, 1945. (Care of the Sick and Injured by Hospital Corpsmen Series) How bacteria enter blood-stream; act; affect patient; why cleanliness is important in surgery. Animation. (*MN 1511–l; 29 minutes, color*)
..... **32, 41**

The Enemy of Your Eyes
U.S. Bureau of Indian Affairs, 1950. How sulfanilamide treatment devised by Dr. Fred Loe cures trachoma of Navajo family; how a Public Health Nurse teaches them to avoid reinfection by improved home sanitation. (*13 minutes, color*)
..... **34**

The Enemy of Your Eyes
U.S. Bureau of Indian Affairs, 1950. Navajo language version of motion picture with same title. (*13 minutes, color*)
..... **34**

The Enemy Strikes: Battle of the Bulge
U.S. Department of the Army, 1945. Von Runstedt's "break through"; how Germans utilized all reserved men, officers, and supplies in blitzkrieg counter-attack into Belgium, December 6, 1944. (*M 1130; 11 minutes*)
..... **32, 41**

Enemy X
U.S. Public Health Service in cooperation with American Society for the Control of Cancer, 1942. Cancer symptoms, importance of early diagnosis; work of Woman's Field Army. (*14 minutes*)
..... **32**

La Enfermedad se Propaga
U.S. Office of Inter-American Affairs, 1945. (Salud para las Americas) Spanish version of "How Disease Travels" formerly entitled "Transmission of Disease."

Portuguese version "Transmissao Das Doencas" also available. (*11 minutes, color*)
..... **37**

The Engine Assembly
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 3) How to check the cylinder head and block; intake and exhaust manifolds; under-chassis parts; valve mechanism and tappets; vents, screws, and air filters; oil filter and oil lines; and cylinder depression. Supplementary filmstrip, same title, also available. (*OE 463; 19 minutes*)
..... **32, 41**

Engine Change: Installation
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Safety precautions to be observed when installing an engine; how to inspect engine mount, controls, and firewall; connect controls and attachments; ground-test the engine; and prepare for check flight. Supplementary filmstrip, same title, also available. (*OE 273; 17 minutes*)
..... **7, 32, 41**

Engine Change: Removal
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Safety precautions to be observed when removing an engine; how to disconnect controls and attachments; remove the engine; and inspect the mount, firewall, and controls. Supplementary filmstrip, same title, also available. (*OE 272; 17 minutes*)
..... **7, 32, 41**

Engine Reassembly. Part 1
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series) How to reassemble; inspect liner; seat seal in position in cylinder block; lower liner and fit piston into liner; put shell into connecting-rod bearing; and install the connecting-rod bearing cap. (*MN 2364–j; 15 minutes*)
..... **41**

Engine Reassembly. Part 2
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series) How to install fire gasket, liner, cylinder nuts, motor header flange, and liner drain plug, exhaust manifold gasket and cover-frame, lube oil lines, injector nozzle, air starting and fuel lines; adjust valve clearances; and install cylinder head cover. (*MN 2364–k; 18 minutes*)
..... **41**

Engine Reassembly. Part 3
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series) How to secure exhaust manifold; install indicator cock and relief valve unit; secure air starting manifold and supply line; remove coupling gear; close indicator cocks; and tighten wrist pin bolt. (*MN 2364–e; 15 minutes*)
..... **41**

Engine Tests and Tune Up
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 5) How to adjust the automatic choke; check and adjust ignition, valve tappets, and carburetor; and make vacuum gage tests. Supplementary filmstrip, same title, also available. (*OE 465; 18 minutes*)
..... **32, 41**

Environmental Sanitation
U.S. Institute of Inter-American Affairs, 1946. (Health for the Americas Series) How sanitary facilities and practices protect the health and lives of people living in crowded cities. Why sanitary disposal of sewage and garbage, protection of food, milk and water and general cleanliness of people and places is necessary. Animated cartoon. Portuguese version "Saneamento Geral" and Spanish version "Saneamiento Del Ambiente" also available. (*8 minutes, color*)
..... **32, 37**

Epidemiology of Influenza
U.S. Public Health Service, 1950. Historical significance of disease, clinical

picture, the behavior and periodicity of disease; World Health Organization program; establishment of lookout posts; doctor's role in reporting outbreaks and preventing recurrence of pandemic; pathogenic specimen collection and laboratory procedures. (*CDC 4–100; 20 minutes*)
..... **27, 41**

The Epidemiology of Murine Typhus
U.S. Public Health Service, 1948. (Typhus Control Series) Epidemiological procedures of murine typhus and relationship to its prevention and control. Role of doctor, public health official, and Public Health Service epidemiologists. Brief visualization of key control activities. Animation. (*CDC–4–049; 18 minutes*)
..... **27**

Equipment
U.S. Department of the Navy, 1949. (U.S. Naval Arctic Operations Series. Petroleum Reserve No. 4) Title self-explanatory. (*MN 5377–d; 22 minutes, color*)
..... **41**

Erosion
U.S. Department of Agriculture, 1948. (Soil Conservation Series No. 3) Effect of man-made soil erosion on productive land; differences between man- and nature-made erosion; destructive force of sheet and gully erosion by water and wind; use of preventive conservation farming methods. (*5 minutes*)
..... **4, 32, 41**

ERP in Action Vol. 1, no. 1
U.S. Economic Cooperation Administration, 1950. Mr. Hoffman arrives in France; giant steel plant in United Kingdom; ECA broadcasts from Elsinore, Denmark; land reclamation and building in Italy; maiden voyage of "Oslefjord"; "Ile de France" unloads CARE parcels; President Inonu rides tractor in Turkey; millionth ton of ECA aid reaches Piraeus. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 2
U.S. Economic Cooperation Administration, 1950. Signing Germany's ECA agreement; Berlin and Dusseldorf ERP Exhibitions; ECA machines in Naoussa, Greece; U.S. editors touring Europe: Rome, Paris, Kleber-Colombes Renault plant; Marais Vernier swamp drainage and OEEC agricultural extension services in France; ECA training films in Brussels. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 3
U.S. Economic Cooperation Administration, 1950. Dr. Stikker, OEEC President, leaves for Washington; "Marshall" bicycle in Denmark; building new ships in Gothenburg; visit of Middle West farmers; Passy Alpine hydro-electric plant; landing ERP press at LeHavre; British colonial development; Marshall Aid promotes Carthage excavations in Tunisia. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 4
U.S. Economic Cooperation Administration, 1950. G. C. Marshall speaks on ERP's second anniversary; first electrified stretch of Paris-Lyons-Mediterranean line; return of Polio victim in American iron lung; Nijmegen soap factory steps up production; Anglo-American sales experts discuss methods; Vienna Trade Fair; Van Zeeland reviews OEEC progress. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 5
U.S. Economic Cooperation Administration, 1950. ECA/OEEC Caravan Exhibit in Brussels; King and Queen visit British Industries Fair; Portuguese cod fleet sails for Newfoundland; Danish herring fleet uses ERP depth recorders; Greek sponge fishers; oil drilling near Pau, France; "Bergemaster" launching at Gothenburg; European paper and pulp technical assistance team tour USA; Germany rebuilds; ECA poster contest. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 6
U.S. Economic Cooperation Administration, 1950. ERP rebuilds Coutance school; Po Valley irrigation; "Australia" launching four millionth ton ERP supplies in Austria; schooner showboat tours Greek islands; German ERP train exhibition; British annual trade exhibition; Agrimi (Greece) gift to U.S.A.; American incubators for premature Dutch babies; Holland-American Friendship Day. (*10 minutes*)
..... **24**

ERP In Action Vol 1, no. 7
U.S. Economic Cooperation Administration, 1950. Ambassador Katz sworn in as Special Representative; Berre oil refinery in France; German housing schemes; Austria porcelain insulator factory; Norwegian Kirkenes iron mines receive American equipment; Central Brussels Terminal linking north-south rail; Dutch pre-fabricated homes and new truck models. (*10 minutes*)
..... **24**

ERP In Action Vol 1, no. 8
U.S. Economic Cooperation Administration, 1950. Mr. Hoffman's farewell to Europe; ERP pavillion cornerstone laid in Berlin; Belgian roads rebuilt with new equipment; U.S. census machines arrive in Greece; maiden voyage of Liberte; French agricultural machinery men visit U.S. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 9
U.S. Economic Cooperation Administration, 1950. City fair and "Oceania" launching in Trieste; Italian nobleman's estate becomes boatyard; restoration of Aunay-sur-Odon; Danish fabrics become Paris models; U.S. farmers visit Scotland. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 10
U.S. Economic Cooperation Administration, 1950. Mobile well-digging equipment at work in Greece; Danube ship building yard at Linz; international labor rally at Berlin; first Marais Vernier harvest; French hybrid corn harvest, British nylon factory; free shoes for poor Italian children. (*10 minutes*)
..... **24**

ERP In Action, Vol. 1, no. 11
U.S. Economic Cooperation Administration, 1950. New Greek grain depot; Austrian railroad cars for Europe; Rhine hydro-electric project; more power for Hamburg; Dutch friendship balloons cross Europe; new Dutch farms for old; Danish brick plant quadruples production; new Belgium helicopter airmail service. (*10 minutes*)
..... **24**

ERP In Action Vol. 1, no. 12
U.S. Economic Cooperation Administration, 1950. End of British Marshall Aid; Austrian ski resorts earn foreign currency; French urban milk supply; three nation cooperation in steel cable production in Benelux; first Greek rice harvest. (*10 minutes*)
..... **24**

Es Facil Comer Bien
U.S. Institute of Inter-American Affairs, 1946. (Salud para las Americas) Spanish version of "Planning for Good Eating." Portuguese version of "E Facil Comer Bem" also available. (*8 minutes, color*)
..... **37**

Essentials of First Aid
U.S. Department of the Navy, 1942. Medical facilities afloat; contents of Navy first aid kits; how to examine, treat, transport, and protect injured and wounded; rescue and revive men overcome by smoke. (*MN 299–a; 30 minutes*)
..... **7, 41**

Establishing Construction Lines. Part 1
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) How to establish five basic lines, base, center, buttock, frame, and water, used in ship construction. (*MN 2345–a; 15 minutes*)
..... **41**

Establishing Construction Lines. Part 2
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series) Establishing construction lines; how to mark, compute, and set the lines. Model photography. (*MN 2345–b; 16 minutes*)
..... **41**

Establishing Working Relations for the Disabled Worker
U.S. Office of Education, 1946. (Problems in Supervision Series) Dramatized case study of workers being overly solicitous of a new one-handed lathe operator, of his resentment at being considered a "freak", and of the supervisor's successful handling of the situation. (*OE 401; 14 minutes*)
..... **32, 41**

Europe Looks Ahead
U.S. Economic Cooperation Administration, 1950. How Western Europe is progressing toward economic recovery with Marshall Plan help and facing the challenge ahead: increasing productivity, greater economic cooperation, and integration. (*20 minutes*)
..... **24**

The European Corn Borer
U.S. Department of Agriculture, 1948. History; destructive nature; life cycle: egg, borer, moth; control measures; discovery and recognition of eggs; use of various insecticides and spraying equipment. (*11 minutes, color*)
..... **32, 41**

Evacuation of Casualties: Saipan
U.S. Department of the Navy, 1945. (Medicine in Action Series No. 7) How evacuees were handled at Saipan: emergency treatment; tagging at the field dressing station; adjusting records at regimental aid station; further treatment at collecting station; loading at the evacuation station; how casualties are checked at each station to insure sufficient emergency care. (*MN 3726–g; 23 minutes, color*)
..... **41**

Eve of Battle
U.S. Department of the Army, 1944. Cross section of activity before the Allies invaded Normandy in 1944. (*M1043; 20 minutes*)
..... **41**

Evening Care
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to be cheerful; keep patients comfortable; give alcohol rubs to prevent pressure sores. (*MN 1511–e; 7 minutes*)
..... **41**

Every Minute Counts
U.S. Office of Education, 1944. (Problems in Supervision Series) Problems of Hal Findlay, a new supervisor, in handling lateness, loafing, and absenteeism; and how he learns to deal with individual cases. (*OE 161; 10 minutes*)
..... **32, 41**

Everyman's Empire
U.S. Department of Agriculture, 1948. Natural resources of the U.S. National Forests: lumber, water supply, grasslands, game, and recreational facilities. (*18 minutes, color*)
..... **3, 32, 41**

The Evolution of the Oil Industry
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1941. History of oil from earliest times; Noah's Ark, American Indians, Drake's well; history of oil field methods: drilling; prospecting, hauling, and refining. Silent version, same title, also available. (*34 minutes*)
..... **17**

The Evolution of the Oil Industry
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1937. History of oil from earliest times; Noah's Ark, American Indians, Drake's well; development of oil industry techniques: geophysical prospecting; drilling; testing; refining; storing; transporting; and research. Sound revision, same title, also available. (*60 minutes, silent*)
..... **17**

Excystation and Motility of Endamoeba Histolytica
U.S. Public Health Service, 1948. (Parasitology Series) Bright-field and dark field-illumination shows process of excystation of the trophozoite of E. histolytica. A film short. (*CDC–4–070; 3 minutes*)
..... **27**

Exercise Yukon
U.S. Department of the Army, 1949. A tactical operation to test air transports; defend Arctic airfields; develop methods of training ground force units; and report data for further Arctic operations. (*M 7513; 30 minutes*)
..... **41**

Expanding World Relationships
U.S. Department of State, 1946. An animated color cartoon explaining the technological, economic, and social changes which have occurred during the 150 years since the time of Thomas Jefferson. Emphasizes the interdependence of nations today. (*11 minutes, color*)
..... **32, 41**

Experimental Diving Unit: Evaluation of Physical Fitness by the Step-up Test
U.S. Department of the Navy, 1943. Necessary equipment; how to make test based on cardiovascular response. Special film for medical personnel. (*MN 2153–a; 12 minutes*)
..... **41**

Experimental Diving Unit: The Specific Gravity of the Healthy Man
U.S. Department of the Navy, 1944. Examination to discover specific gravity of average man; scientific research instruments needed. Special film for medical personnel. (*MN 2153–b; 14 minutes*)
..... **41**

Experimental Malaria Transmission
U.S. Public Health Service, 1946. (Malaria Control Series) Rearing, infecting and handling anophelines for experiments; determining rate of infection of mosquitoes; dissecting infected mosquitoes for oocysts and sporozoites; transmitting malaria to human beings with infected mosquitoes; and recording data about mosquitoes and patients. Photomicrography, microphotography. (*CDC–4–008; 18 minutes, color; also b&w*)
..... **27, 41**

Exploring for Oil
U.S. Department of the Navy, 1948. (U.S. Naval Arctic Operations Series. Petroleum Reserve No. 4) Title self-explanatory. (*MN 5377–c; 22 minutes, color*)
..... **41**

Exterminacion de las Plagas
U.S. Institute of Inter-American Affairs, Spanish version of "Insect Enemies." Portuguese version "Como Exterminar Os Insectos" also available. (*7 minutes, color*)
..... **37**

Extra Feeding Pays
U.S. Institute of Inter-American Affairs, 1947. How to store feed for cattle for consumption when green pasture is lacking: trench silo, haystack, irrigated pasture, and other methods. Why well-fed stock is productive and good pastureland protects and rebuilds soil. Portuguese version "Produza Mais Alimentos" and Spanish version "Comida Abundante Para Todos" also available. (*8 minutes, color*)
..... **32, 37**

The Extraordinary Adventures of a Quart of Milk
U.S. Economic Cooperation Administration, 1950. Autobiography of a can of powdered milk; its voyage from a small Normandy farm to cooperative processing plant and its transformation from a quart of liquid milk to a can of powdered milk. American version. (*14 minutes*)
..... **24**

The Eye Loop Holder
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 3) How work capabilities of patients with physi-

cal disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Fabricating Metal Aircraft
U.S. Office of Education, 1945. (Aircraft Work Series. Metal Fabrication) Methods by which sheet metal may be cut, formed, and assembled; mating major assemblies. Supplementary filmstrip, same title, also available. (*OE 288; 14 minutes*)
..... **7, 32, 41**

Fabrication of Copper
U.S. Bureau of Mines in cooperation with Phelps Dodge Copper Products Corp., 1939. Transportation of copper wire bars from refinery to rolling mill; heating; testing; stranding wires together into cables; winding with insulation; and making various forms of insulation. (*48 minutes, silent*)
..... **17**

Face Milling with a Fixture
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 2) How to determine speed and feed; establish reference surfaces; make reference cut by end-milling a flange and by milling the face. Supplementary filmstrip, same title, also available. (*OE 226; 16 minutes*)
..... **32, 41**

Face Planing Uneven Surfaces
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 3) How to surface wide stock on one side; use a pusher; make and use a feather board; use a backing block for facing thin stock. Supplementary filmstrip, same title, also available. (*OE 304; 13 minutes*)
..... **32, 41**

Face Turning a Collar
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 5) How to prepare a faceplate chuck; attach work to it; turn a fillet; taper turn a recess. Supplementary filmstrip, same title, also available. (*OE 317; 16 minutes*)
..... **32, 41**

Facing, Turning, Boring, Grooving, and Chamfering
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 3) How to use a fixture for setting up a casting; set cutting tools in the sidehead turret for facing and turning, and in the main head for boring, grooving, and chamfering. Supplementary filmstrip, same title, also available. (*OE 18; 31 minutes*)
..... **32, 41**

Factors in the Construction of Full Mandibular and Maxillary Denture
U.S. Department of the Navy, 1943. How to test muscle reflexes; make impression for plate; test for over-extension; mold forming plate; fit finished product in patient's mouth. Special film for dental personnel. (*MN 2479; 40 minutes, color*)
..... **41**

Factory Worker Turns Farmer
U.S. Department of State, 1949. Characteristics of people and economy enabling individuals to exercise initiative; how young factory worker and his wife by hard work, wise planning, and neighbors' aid become owners of a small chicken farm. Released through U.S. Office of Education for educational use in the United States. (*24 minutes*)
..... **32, 41**

Farm and City
U.S. Department of Agriculture, 1939. Interdependency of farm and city; influence of economic status on each other. (*9 minutes*)
..... **32, 41**

Farmer At War
U.S. Office of War Information, Domestic Branch, 1943. How Lancaster County, Pa. farmers managed by longer hours and neighborhood cooperation to meet the need for the greatest output of products possible in spite of serious tool and labor shortage. (*11 minutes*)
..... **32, 41**

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Farmers of Japan
U.S. Department of Agriculture in cooperation with U.S. Department of the Army, 1948. Documented activities of one Japanese farmer; work and way of life; primitive tools and methods. (*20 minutes*)
..... **32, 41**

Febre Tifoide
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "The Typhoid Carrier." Spanish version "La Tifoidea" also available. (*9 minutes, color*)
..... **37**

Feed Control
U.S. Department of the Navy, 1944. (Fireroom Operation Series) How to maintain correct water level; various procedures in feed control operation. (*MN 2356–d; 22 minutes*)
..... **41**

Feeding Farm Animals
U.S. Department of Agriculture, 1946. Six classes of nutrients: carbohydrates, fats, proteins, vitamins, minerals and water; resultant good health, economy, and greater production; value of farm literature. (*19 minutes*)
..... **32, 41**

Feeding the Patient
U.S. Office of Education, 1944. (Nursing Series) Factors which affect appetite and digestion; preparation of the environment and the patient for the meal; proper balance of food and arrangement of the tray; individualized feeding care; factors to be considered in after-care of the patient. Supplementary filmstrip, same title, also available. (*OE 404; 15 minutes*)
..... **32, 41**

Ferramentas e Maquinas
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "From Small Beginnings." Spanish version "Mejores Herramientas" also available. (*7 minutes, color*)
..... **37**

Field Artillery Sight Tests and Adjustments
U.S. Department of the Army, 1949. How to test and adjust field artillery sighting equipment demonstrated on 105mm howitzer equipment. (*TF 6–1498; 37 minutes*)
..... **41**

Field Management of Eye Injuries
U.S. Department of the Navy, 1945. (Eye Surgery Series) How to remove pterygium with local anaesthesia and chalazion with surface anaesthesia; penetration of the cornea; corneal laceration; enucleation; and removal of intra-ocular foreign body. Close-ups. Special film for medical personnel. (*MN 2477–c; 20 minutes, color*)
..... **41**

Field Water Supply Installations
U.S. Department of the Army, 1944. Principle and operation of mobile water purification unit and the two types of equipment used in the field to provide purified water for the soldiers. (*FB 99; 17 minutes*)
..... **41**

Fiestas of the Hills
U.S. Coordinator of Inter-American Affairs, 1942. (Mexican Fiestas Series No. 3) Aztec dance rituals; religious fiesta of Via Crusis and pilgrimage to Chalma. (*10 minutes, color*)
..... **32, 41**

The Fight Against the Communicable Diseases
U.S. Public Health Service, 1950. Orientation film on organization and activities of Communicable Disease Center, its relationship with other Public Health Service activities and its services to local and state health departments. (*CDC–4–080; 18 minutes, color*)
..... **27, 41**

Fight for the Sky
U.S. Department of the Air Force, 1945. How the 8th Fighter Command, 8th Air Force, cleared the sky of Luftwaffe and roads, railroads, and waterways for oncoming Allied ground forces. Gun camera

footage of fighters protecting bombers. (*SFP 157–a; 20 minutes*)
..... **11, 32, 41**

The Fighting First
U.S. Department of the Army, 1946. Combat operations of 1st Infantry Division in 8 campaigns and 3 invasions; attacks and counterattacks on foot and in trucks and assault boats. (*M 1279; 15 minutes*)
..... **12, 32, 41**

A Fighting Lady Speaks
U.S. Department of the Navy, 1950. How aircraft carrier dive bombers carrying machine guns, 5-inch rockets and bombs destroy bridges, factories and strong points to cripple enemy resistance in Korea and aid advance of ground forces. (*MN 7283; 10 minutes*)
..... **14, 41**

Fighting Lady's Family
U.S. Department of the Navy, 1950. Progress report on post-war Navy; growth of Naval aviation since World War II; combat shots of Navy and Marine Corps in Pacific; new-type planes; cold weather equipment; snorkle submarines. (*MN 6739; 33 minutes*)
..... **14, 41**

Fighting Large Fires in Brush and Grass
U.S. Department of Agriculture, 1947. Training film on planning and executing methods of attack, assignment of men and equipment, etc., in fighting large grass and brush fires on Utah ranges and in surrounding States. (*30 minutes, color*)
..... **3, 32, 41**

Fighting Weeds
U.S. Bureau of Reclamation [1940?] How to control obnoxious and poisonous weeds on irrigation projects. (*28 minutes, color*)
..... **18**

Figures Don't Lie
U.S. Department of the Army, 1945. The physical fitness program of the WACS; calisthenics; mental, emotional, and physical fitness. For female audience only. (*TF 8–2101; 20 minutes*)
..... **41**

Filing
U.S. Department of the Navy, 1942. Importance of files and filing in machinist's work; filing techniques; various types of files and file cuts. (*MN 159; 15 minutes*)
..... **41**

Filing an Internal Irregular Shape
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations On the Metal Cutting Band Saw No. 2) How to make file selection; set up a metal cutting band saw machine for filing; file a die; lay out a punch using a die as a template; file a punch; check the filing of a punch with a die; and fine-finish file. Supplementary filmstrip, same title, also available. (*OE 240; 27 minutes*)
..... **32, 41**

Filing and Installing Chocks
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 3) How chocks are used in machinery installation; measurements made for preparing chocks; Prussian blue and chalk used for adjusting chocks; feeler gages used; foundation and chocks drilled for bolting machine. Supplementary filmstrip, same title, also available. (*OE 97; 15 minutes*)
..... **32, 41**

Filing Template Metal
U.S. Office of Education, 1943. (Aircraft Work Series. Templates No. 5) How to file a square edge and remove burrs; rotate the wrist for filing inside curves; file inside rectangle; and remove fillets from corners. Supplementary filmstrip, same title, also available. (*OE 129; 15 minutes*)
..... **32, 41**

Filleting and Packaging Fish. Part 1: Catching, Filleting, and Packaging
U.S. Fish and Wildlife Service, 1947. (Commercial Fisheries Series No. 1) How to catch fish using a trawl; how to

process, by filleting, packaging and freezing for market. (*14 minutes*)
..... **20, 32, 41**

Filleting and Packaging Fish. Part 2: How to Fillet Fish
U.S. Fish and Wildlife Service, 1947. (Commercial Fisheries Series No. 2) Training film on step-by-step procedure in filleting round and flat fish. Animation clarifies processes. For filleters, manual skill classes and restaurant personnel. (*10 minutes*)
..... **20, 32, 41**

Film Communique No. 4
U.S. Department of the Army, 1943. "Aerial Technique"; operations over New Guinea; "Roll of Honor"; American engineers building an airstrip at Munda in record time; "Fifth Army"; Gen. Mark Clark's Army advances from Salerno to across the Volturno River. (*WF 15; 20 minutes*)
..... **32, 41**

Film Communique No. 5
U.S. Department of the Army, 1944. "P–47's Come to Town"; aircraft uncrated in England and put into the air; "Two Million Dollar Hill"; cost in ammunition before the Germans gave up; "Hawaiian Jungle Training"; Ranger Combat School inspected by Gen. Marshall; "A Few Quick Facts"; animated cartoon; "Bloody Tarawa"; Marine Corps assault on the little island. (*WF 16; 20 minutes*)
..... **32, 41**

Film Communique No. 7
U.S. Department of the Army, 1944. "Burma Outpost"; men perched up in the hills supplied by parachute; "The Home Front"; animated cartoon with Private Snafu; "What Makes a Battle?" invasion of the Marshall Islands. (*WF 18; 20 minutes*)
..... **32, 41**

Film Communique No. 10
U.S. Department of the Army, 1944. Artillery activity in Italy; showdown battle for Hill 700 in Bougainville and gradual annihilation of the Japanese Sixth Division; typical day with crew of a B–29 Marauder Bomber over Nazi-held France and Holland. (*WF 24; 20 minutes*)
..... **32, 41**

Film Communique No. 12: Weapons of War
U.S. Department of the Army, 1944. Softening up and taking Japanese-held Island of Guam; Chinese allies constructing and leveling huge airfields with their bare hands; paratroop operation; operation of Black Widow night fighter. (*WF 36; 20 minutes*)
..... **32, 41**

Film Communique No. 13: Back Door to Japan
U.S. Department of the Army, 1944. General Frank Merrill's jungle fighters, famed as "Merrill's Marauders" capture the strategic Burma Air Base at Myitkyina. (*WF 37; 17 minutes*)
..... **32, 41**

Film Tactics
U.S. Department of the Navy, 1945. How training films should be used; preparation by instructor; satisfactory room conditions; preparation of class; review of film before class; and test; certain elementary things which should not be done. Photographed at Biscayne Bay, Fla. (*MN 3731; 22 minutes*)
..... **32, 41**

Fine Grinding and Polishing: Flat Surfaces
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to grind, polish, set molds, block, deblock, and score lathes for different results in finished product. (*MN 2449–k; 30 minutes*)
..... **41**

Fine Grinding: Spherical Surfaces
U.S. Office of Education, with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) How to set up lenses in multiple spindle machine; adjust grinding machine for grinding concave or convex

lenses; wash and inspect lenses after fine grinding. Animation. Supplementary filmstrip, same title, also available. (*OE 183; 15 minutes*)
..... **32, 41**

Finish Forming by Hand
U.S. Office of Education, 1943. (Aircraft Work Series. Forming Sheet Metal No. 4) Successive stages of forming with a flat fibre strip; shrinking large wrinkles with a forming tool; marking excess metal with a surface gage; and checking finished work with a contour template. Supplementary filmstrip, same title, also available. (*OE 135; 16 minutes*)
..... **32, 41**

Finishing Molded Parts
U.S. Office of Education, 1945. (Plastics Series No. 9) How to finish a typical molded part; trim the gate with a band saw; sand it with a drum-sander; finish and polish by tumbling. Animation. Supplementary filmstrip, same title, also available. (*OE 474; 14 minutes*)
..... **32, 41**

Fire and Water
U.S. Coordinator of Inter-American Affairs, 1942. (Mexican Fiestas Series No. 1) Lenten fiesta at Taxco; dancers of the True Cross performing typical dances; customs and dances accompanying the blessing of the headquarters of the River Lerma. (*10 minutes, color*)
..... **32, 41**

Fire in the Forest
U.S. Department of Agriculture, 1951. Why fuel, weather, and slope are the main conditions that control fire behavior; for training forestry personnel and general information in forest fire behavior. (*23 minutes, color*)
..... **3, 32, 41**

Fire Weather
U.S. Weather Bureau, 1936. How the U.S. Weather Bureau gathers forest-fire weather data and distributes warnings of fire hazards. (*14 minutes*)
..... **32, 41**

Firepower
U.S. Department of the Army, 1943. Importance of American mass production of guns and ammunition for all-out war effort; demonstration of American weapons. (*WF 3; 12 minutes*)
..... **32, 41**

First Aid
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) Importance of a knowledge of first aid; Mac Gillicuddy demonstrates how *not* to administer first aid; Joe gives a quick review of correct procedures. Animation. (*MN 2808–b; 6 minutes*)
..... **41**

First Aid for Non-Battle Injuries
U.S. Department of the Army, 1944. Causes, effects, and treatment of such minor injuries as exhaustion, poison ivy, snakebites, broken bones, burns, splinters, and infections. (*TF 8–2049; 29 minutes*)
..... **41**

First Aid on Finnish Winter Front: Utilization of Papers
U.S. Department of the Army, 1948. (Professional Medical Films Series) How paper was designed to use as an overall covering for warmth; and used in other ways in giving first aid to sick and wounded on Finnish Winter Front. (*PMF 5106; 33 minutes*)
..... **41**

First Flight. Part 1
U.S. Department of the Navy, 1945. (Primary Flight Training Series) Primary principles of flight; how control surfaces affect plane behavior; how to use ailerons and stabilizer. (*MN 3474–d; 15 minutes*)
..... **7**

First Flight. Part 2
U.S. Department of the Navy, 1945. (Primary Flight Training Series) How to use trim tabs in flight; tell plane reaction by sound of engine; use rudder to facilitate entry and recovery from turning practice; importance of 210° vision to pilot. (*MN 3474–e; 13 minutes*)
..... **7**

First Forty Days
U.S. Department of the Army, 1950. First 40 days of American combat in Korea; arrival of troops; unloading of supplies and equipment; combat scenes of Generals Walker and Dean; arrival of replacements; combat scenes at Taejon; blowing up bridges; and establishing defense line. (*MN 7761; 24 minutes*)
..... **12, 32, 41**

First Impressions
U.S. Department of the Navy, 1942. How to introduce new employee to job for best first impression. (*MN 1374; 21 minutes*)
..... **7, 32, 41**

First Steps in First Aid
U.S. Bureau of Mines in cooperation with The Upjohn Co., 1942. How to handle various types of accidents; locating injury; transportation; recognition of symptoms and treatment of shock, bleeding, extensive burns, and wound infection; and procedures for home and industrial accidents. (*30 minutes*)
..... **17**

Fish Is Food
U.S. Fish and Wildlife Service in cooperation with New York City Department of Markets, 1946. Marketing and preparation of fresh water fish and sea food for New York City with detailed operations from the catch to dinner table. (*10 minutes*)
..... **20**

Fitting and Installing a Section of Pipe Aboard Ship
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) How to apply flanges; insert bolts; install pipe hangers; weld a fitted template; apply same principles to wooden and mechanical templates; set up and install female template aboard ship; precautions. Supplementary filmstrip, same title, also available. (*MN 2337–d; 20 minutes*)
..... **41**

Fitting and Installing Packing
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Preparation for Stern Launching) How to fit and install packing in center section of cradle to support weight where ship is nearly flat. (*MN 2341–b; 9 minutes*)
..... **41**

Fitting and Scraping Small Bearings
U.S. Office of Education, 1942. (Machine Shop Work Series, Bench Work No. 3) Scraping split and solid bearings; laying out and chipping oil grooves; fitting the shaft to the bearings. Supplementary filmstrip, same title, also available. (*OE 36; 24 minutes*)
..... **32, 41**

Fitting Replacement
U.S. Department of the Navy, 1945. (Self-Sealing Fuel Cells Series) How to locate, remove, and replace damaged fitting; tools, materials, and equipment necessary to remove and install a fitting. (*MN 4318–e; 17 minutes*)
..... **41**

Five Bandits of the Cotton Crop
U.S. Department of Agriculture, 1948. Losses from destructive insects; characteristics, life cycle, and habitat of boll weevil, bollworm, fleahopper, cotton leafworm, and cotton aphid; availability of insecticide information from official sources. (*10 minutes, color*)
..... **32, 41**

Fixed Bridge Construction and Repair in the CBI
U.S. Department of the Army, 1945. How Army engineers built and repaired fixed bridges in CBI Theater. (*FB 192; 11 minutes*)
..... **41**

Fixed Gages
U.S. Office of Education, 1941. (Machine Shop Work Series. Precision Measurement No. 3) Use of snap, plug, ring, thread, screw-plug, and flush-pin gages; importance in modern mass production. Supplementary filmstrip, same title, also available. (*OE 3; 17 minutes*)
..... **32, 41**

Flat-Rolled Products
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940.

(The Making and Shaping of Steel Series) Manufacture of steel plates from flat ingots in slabbing mill, strip mill, and hoop mill: rolling; reheating; rerolling; leveling; cooling; cutting to length; testing; rolling into thin sheet; and galvanizing process. (*15 minutes, silent*)
..... **17**

Fleet That Came to Stay
U.S. Department of the Navy, 1945. Invasion of Okinawa; naval action at time of landing; attack by and counterattack against Kamikaze. (*MN 5802; 22 minutes*)
..... **14, 41**

Flight Path Precision Covering Circle Shots, Pylons, and Small Field Procedure
U.S. Department of the Navy, 1947. (Primary Flight Training Series) How to circle, fly pylons and land and take off from small field. (*MN 3474–r; 21 minutes*)
..... **7**

Flight Safety: Bailing Out
U.S. Department of the Navy, 1950. How to bail out of VA and VF type aircraft. Cartoon. (*MN 4353–r; 9 minutes, color*)
..... **41**

Flight Safety: Hazards in Ground Operation of Jet Aircraft
U.S. Department of the Navy, 1950. Covers exhaust blast, suction, and cooling hazards. Animation. Safety film for aviation personnel. (*MN 4353–p; 5 minutes, color*)
..... **41**

Flood
U.S. Department of Agriculture, 1946. Urban and rural flood disaster scenes; watershed control methods; activities and advantages of U.S. Soil Conservation Service to city and country. (*8 minutes*)
..... **4, 32, 41**

Flood Weather
U.S. Weather Bureau, 1937. How to forecast weather for river navigation and flood protection. Scenes of the Potomac flood, 1936, and Ohio flood, 1937. (*31 minutes*)
..... **32, 41**

Flow Process Chart and How to Use It
U.S. Office of Scientific Research and Development, 1945. How to prepare a flow process chart to study and apply work simplification; four keys to process charting; operation, transportation, storage, and inspection. Animation. (*15 minutes, color*)
..... **41**

Flue Gas Analysis (Orsat Apparatus)
U.S. Office of Education, 1944. (Engineering Series) How to set up the Orsat gas analyzer; absorb and measure the amounts of carbon dioxide, oxygen, and carbon monoxide in a sample; and calculate the amount of nitrogen. Supplementary filmstrip, same title, also available. (*OE 367; 19 minutes*)
..... **32, 41**

Fluid Flow In Hydraulic Systems
U.S. Department of the Navy, 1944. Nature of liquids, types of flow, causes of types of flow, flow through pipes and orifices. (*MN 5027–b; 8 minutes, color*)
..... **7**

Fly Density Survey by the Grill Method
U.S. Public Health Service, 1949. (Community Fly Control Series) Nature, construction and use of the fly grill for measuring fly density. (*CDC–4–086; 6 minutes, color*)
..... **27, 41**

Fly High and Live: Oxygen Equipment
U.S. Department of the Navy, 1944. How and when to use new diluter demand oxygen equipment; operation of system; safety features. To instruct pilots, aircrewmen, and all flying personnel. (*MN 2860; 28 minutes*)
..... **7, 41**

Flying Sense
U.S. Department of the Navy, 1945. (Primary Flight Training Series) How

to bring primary flight student in contact with fundamentals of primary flight program, link childhood experiences and preparatory training with projected activities by use of analogies with walking, bicycling, and driving a car. (*MN 3474–a; 24 minutes*)
..... **7, 41**

Flying the Weather Map
U.S. Department of the Navy, 1944. (Aerology Series) How weather maps are prepared; symbols representing fronts, precipitation areas, thunderstorms, rain, air masses, and pressure areas. (*MN 119–h; 25 minutes, color*)
..... **7, 32**

Flying the Weather Map: the Equatorial Front
U.S. Department of the Navy, 1944. Equatorial front: causes, area covered, appearance of clouds, seasonal, daily, hourly changes; how to calculate changes; fly front; report data. (*MN 3112–c; 12 minutes*)
..... **7**

Flying the Weather Map: The Howgozit Chart
U.S. Department of the Navy, 1944. How Flight Control Officer plots fuel consumption and Navigator checks consumption during flight; charting a flight from Scotland to Newfoundland. (*MN 3112–b; 13 minutes, color*)
..... **7, 41**

Fog
U.S. Department of the Navy, 1943. (Aerology Series) How fog forms; weather characteristics and conditions producing fogs. (*MN 119–b; 24 minutes, color*)
..... **7, 32**

Folding and Packing the Service Seat Parachute
U.S. Department of the Air Force, 1942. (Parachutes Series) Procedures in servicing the service seat type parachute; how to unpack and pack chute. (*TF 1537; 16 minutes*)
..... **7**

Fontana Dam
U.S. Tennessee Valley Authority, 1947. How Fontana Dam, highest dam of Tennessee River System, was constructed across the Little Tennessee River in the Great Smoky Mountains of North Carolina. (*21 minutes, color*)
..... **30, 40**

Food and Soil
U.S. Department of Agriculture, 1945. Highlights of soil conservation with emphasis upon the relationship between food and productive soil. Revision. (*10 minutes, color*)
..... **4, 32, 41**

Food for Fighters
U.S. Office of War Information, Domestic Branch, 1943. How U.S. Army Quartermaster Corps processes and transports food to the armed forces. (*10 minutes*)
..... **32, 41**

Food for Thought
U.S. Fish and Wildlife Service, 1950. (Commercial Fisheries Series No. 7) How to plan, purchase, prepare, display and serve school lunches effectively. For school lunch managers and parent teachers organizations. (*15 minutes, color*)
..... **20, 32, 41**

Food for Thought; No Place like Home
U.S. Department of the Army, 1947. Importance of proper conservation of food; soldiers cautioned to take only food actually required. Similarities between camp life and home life. (*AFSR 88; 16 minutes*)
..... **41**

Food Service Activities
U.S. Department of the Army, 1948. How Quartermaster Corps tests new equipment and trains bakers, cooks, and other food service personnel at Food Service Schools. (*M 7532; 8 minutes*)
..... **41**

Food Storage
U.S. Department of the Army, 1949. (The Stowaway Series No. 3) Careful inspection of food by the U.S. Army

Veterinary Corps, the Bureau of Animal Industry, and the Port Food Service Inspector before procurement and use aboard troop transports; facilities for food storage and preservation of food. (*TF 8–1503; 12 minutes*)
..... **41**

For Health and Happiness
U.S. Department of Agriculture in cooperation with Cornell University, 1941. Influence of good nutrition on human health and happiness; various age level food requirements; scenes of well-nourished children and youth; food groups contributing to all-round development. Silent version, same title, also available. (*11 minutes, color*)
..... **32, 41**

For Health and Happiness
U.S. Department of Agriculture in cooperation with Cornell University, 1941. Silent version of sound film, "For Health and Happiness", also available. (*16 minutes, color, silent*)
..... **32, 41**

For Which We Stand: To Be Held in Honor
U.S. Department of the Navy, 1951. Appeal to the service man's sense of moral values and the desirability of his practicing sexual self control. (*MN 5321–c; 21 minutes*)
..... **41**

For Years to Come
U.S. Department of Agriculture, 1944. Work of a farmer and his family during a year in which they changed over from the old, straight-row method to modern conservation farming methods. Revision. (*22 minutes, color*)
..... **4, 32, 41**

Forced Down at Sea
U.S. Department of the Navy, 1943. Various types of rubber life rafts; their emergency equipment; how to inflate; enter raft and best use its equipment. (*MN 1329; 24 minutes*)
..... **7**

Forces In Balance
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. (How an Airplane Flies Series No. 4) How lift, drag, thrust and weight forces affect airplanes in flight; how balanced forces maintain flight at constant speed, straight and level, and equilibrium in gliding attitude. (*9 minutes*)
..... **7**

Fore Poppets and Internal Shoring Construction
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Preparation for Stern Launching) Construction of fore poppet and internal shoring, installation of sling plates, crushing blocks and strips, packing timbers, angle brackets, and all sections of internal shoring; importance of snug fit for proper support. Supplementary filmstrip, same title, also available. (*MN 2341–a; 26 minutes*)
..... **41**

Forest Fire Fighting in the South
U.S. Department of Agriculture, 1945. Elementary training film on types and proper use of fire tools and proper tactics for forest fire fighting in the South. (*41 minutes, color*)
..... **3, 32, 41**

The Forest Ranger
U.S. Department of Agriculture, 1941. Daily duties, ideals of public service, and contributions of forest rangers in U.S. National Forests. Short version, "Guardians of the Wild", also available. (*32 minutes*)
..... **3, 32, 41**

Forest Road Maintenance
U.S. Department of Agriculture, 1948. Training film for road maintenance personnel showing results of common mistakes and proper methods. (*27 minutes, color*)
..... **3, 32, 41**

Forest Smokechasers
U.S. Department of Agriculture, 1948. Training film for western smokechasers and lookouts on techniques of putting

out small fires from spotting to final cleanup. (*27 minutes, color*)
..... **3, 32, 41**

Forests Forever
U.S. Department of Agriculture, 1945. Interstate and national dependence on forests; Federal and State responsibility for forest protection and management; measures for protection and perpetuation of timber supply. (*25 minutes, color*)
..... **3, 32, 41**

Forge Welding
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 2) How to maintain a clean, deep, hot fire; heat mild steel for forging; upset and scarf round stock; make a lap weld; shape and hammer refine the weld. Supplementary filmstrip, same title, also available. (*OE 192; 12 minutes*)
..... **32, 41**

Forging with a Hand Forge
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 1) How to clean the tuyere and build an open fire in a forge; lay out and mark the stock; heat mild steel for forging; and forge an eye. Supplementary filmstrip, same title, also available. (*OE 191; 13 minutes*)
..... **32, 41**

Formation Flying: Basic
U.S. Department of the Air Force, 1942. Basic principles of elementary formation flying: position of leader and wingmen, basic signals, precautions for beginner. (*TF 1-492; 8 minutes*)
..... **7**

Forming on a Hand Operated Brake
U.S. Office of Education, 1944. (Aircraft Work Series. Forming Sheet Metal No. 3) How to set up the brake for bend angle and bend radius; operate the brake; check test pieces and finished work. Supplementary filmstrip, same title, also available. (*OE 134; 17 minutes*)
..... **32, 41**

Forming on Rotary Machines
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No. 2) How to mark bend lines on blank sheet from a template for forming on the slip roll machine; how to form a shallow bead and the final bead. Supplementary filmstrip, same title, also available. (*OE 290; 17 minutes*)
..... **32, 41**

Forming on the Stretching Machine
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No. 6) How to form a skin panel on the stretch press; set up the machine; make necessary adjustments for a production run; and handle the run. Supplementary filmstrip, same title, also available. (*OE 251; 17 minutes*)
..... **32, 41**

Forming with a Drop Hammer
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No. 5) Purpose of drop hammer forming; how to operate the pneumatic hammer; set up the punch and die; handle a production run on a single-hit job; and use draw rings on a deep-draw job. Supplementary filmstrip, same title, also available. (*OE 291; 17 minutes*)
..... **32, 41**

Forming With Rubber on the Hydraulic Press
U.S. Office of Education, 1944. (Aircraft Work Series. Forming Sheet Metal No. 1) How sheet metal parts are formed with rubber on a hydraulic press; how to set up the work, and operate the press. Supplementary filmstrip, same title, also available. (*OE 133; 11 minutes*)
..... **32, 41**

Foundations and Concrete
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film; title self-explanatory. (*MN 6719-a; 26 minutes*)
..... **32, 41**

The 4.5-Inch Multiple Rocket Launcher, T66
U.S. Department of the Army, 1945. Principles of operation of the T66 launcher and the rocket that it fires; duties of crew; and tactical employment of launcher. (*FB 206; 23 minutes*)
..... **41**

Four Steps Forward
U.S. Department of the Navy, 1942. Four-point system for instructing new employees. (*MN 1372; 27 minutes*)
..... **7**

Fracture of the Cervical Spine: Crutchfield Tongs Reduction
U.S. Department of the Navy, 1943. Crutchfield tongs reduction operation: progress of patient; each step of operation during period of months. Special film for medical personnel. (*MN 1558; 11 minutes, color, silent*)
..... **41**

Fractures
U.S. Department of the Navy, 1943. (Personnel Damage Control Series) Diagram of bones and muscles; how to examine for broken arm, leg, collar bone, back and skull; administer morphine; apply splint bandages. Battle station first aid. Revision, same title, also available. (*MN 836–d; 23 minutes, color*)
..... **41**

Fractures
U.S. Department of the Navy, 1947. (Personnel Damage Control Series) How to recognize different types of fractures and treat simple and compound fractures. Live photography; animation. Revision. (*MN 6466–d; 10 minutes*)
..... **41**

Framing, Floor Joists, and Walls
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film; title self-explanatory. (*MN 6719–b; 25 minutes*)
..... **32, 41**

Framing, Hip and Valley Rafters
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film, title self-explanatory. (*MN 6719–d; 25 minutes*)
..... **32, 41**

Framing, Rafter Principles & Common Rafters
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film; title self-explanatory. (*MN 6719–e; 15 minutes*)
..... **32, 41**

Free City
U.S. Economic Cooperation Administration, 1950. A day in the life of the free city of Trieste, recovering with Marshall Aid, from its post-war dissensions. American version. (*10 minutes*)
..... **24**

Freedom of the Press
U.S. Department of the Army, 1949. From Zenger's "Weekly Journal" to tomorrow's paper, a free press in America. (*CAD 66; 10 minutes*)
..... **32, 41**

Freedom to Learn
U.S. Office of War Information, Overseas Branch, 1945. Facilities and activities of State University of Iowa, including student newspaper and radio station, hospital, etc. How in both scholastic and social activities the environment helps individuals develop in accordance with democratic processes. (*17 minutes*)
..... **32, 41**

Freezing Fruits and Vegetables
U.S. Department of Agriculture, 1945. Fruit and vegetable freezing procedure; how to select good varieties, gather at proper stage, prepare and scald, pack in moisture-vapor-resistant containers, freeze and store at zero degree Fahrenheit or lower. (*16 minutes, color*)
..... **32, 41**

French Bowline
U.S. Coast Guard, 1943. How to tie and untie French bowline; how it is used in rescue work. (*3 minutes*)
..... **41**

From Buffalo to Cattle
U.S. Bureau of Indian Affairs, 1950. How educational and vocational program of Federal Indian Schools closely integrates practical experience and academic learning; how vocational students learning cattle business acquire a foundation herd during school on repayment basis. (*22 minutes, color*)
..... **34**

From Small Beginnings
U.S. Institute of Inter-American Affairs, 1947. How proper use of available farm tools enabled farmer to farm more land, raise larger crops, and obtain better equipment. Portuguese version "Ferramentas e Maquinas" and Spanish version "Mejores Herramientas" also available. (*7 minutes, color*)
..... **32, 37**

From Whence Cometh My Help
U.S. Department of the Army, 1949. Dramatized case histories of purpose, methods and effects of pastoral counseling by Army chaplains. (*TF 16–1556; 30 minutes*)
..... **41**

Front Line Chaplain
U.S. Department of the Army, 1945. How ministers, priests, and rabbis in uniform conducted services, officiated at burials, and tried to lighten the burden of battle in all theaters of World War II. (*M 1170; 10 minutes*)
..... **41**

Fruits, Vegetables, and Cooperation
U.S. Department of Agriculture, 1941. Benefits to farmers of cooperatively marketing crops; growing and cooperative marketing of celery, lettuce, potatoes, cherries, cranberries, mushrooms, peaches, apples, and citrus; unusual methods of farming. (*27 minutes*)
..... **2, 32, 41**

The Frying Pan and the Fire
U.S. Department of Agriculture, 1947. Disastrous outcome of camping trip when improperly extinguished camp fire spreads to woods and is put out only after ruining the camper's outing and belongings. (*18 minutes, color*)
..... **3, 32, 41**

Fuel Pump Disassembly
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Fuel System No. 4) How to disconnect linkage, remove cover plate, disconnect all lines, remove fuel pump and disassemble at work bench; remove all parts from pump housing. (*MN 2364–p; 14 minutes*)
..... **41**

Fuel Pump Reconditioning and Reassembly
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Fuel System No. 5) How to recondition parts of fuel pump system and reassemble. (*MN 2364–q; 23 minutes*)
..... **41**

Fueline to Italy: Road to Petroleum
U.S. Economic Cooperation Administration, 1950. How E.R.P. financed shipping transports crude oil from Arab Middle East to Italy where oil refinery is the newest and fastest growing industry of this ideal trans-shipment point for the fuel of all Western Europe; processes of extracting and refining crude oil. (*10 minutes*)
..... **24**

Fundamental Lines and Sections
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Nomenclature of Ships) Meaning and purpose of various lines; division of ships' structure; names and symbols for different parts. Supplementary filmstrip, same title, also available. (*MN 2334–a; 20 minutes*)
..... **41**

The Fundamental Nature of Air Flows and Air-Flow Separation
U.S. National Advisory Committee For Aeronautics, 1935. Technical film; title self-explanatory. (*17 minutes, silent*)
..... **28**

Fundamentals of Artillery Weapons. Part 1: Types and Components of Cannon
U.S. Department of the Army, 1944. Brief definition and classification of artillery weapons; explanation of the main types: guns, howitzers, and mortars; operating principles of percussion hammer, inertia, and continuous pull-type firing mechanism. (*TF 9–2058; 28 minutes*)
..... 41

Fundamentals of Artillery Weapons. Part 2: Types and Components of Carriage
U.S. Department of the Army, 1944. Definition of main types of carriages, fixed and mobile; three types of mobile carriages: railway, self-propelled, and towed; examples of each type. (*TF 9–2059; 22 minutes*)
..... 41

Fundamentals of Ballistics
U.S. Department of the Army, 1949. Explanation and study of launching missiles and explosives. (*TF 9–1512; 19 minutes*)
..... 41

Fundamentals of End Cutting Tools
U.S. Office of Education, 1942. (Machine Shop Work Series. Single Point Cutting Tools No. 2) Radius, threading, sheercut finishing, round-nosed finishing, side-facing tools; correct setting of the tools; and the type of cut each one makes. Supplementary filmstrip, same title, also available. (*OE 43; 12 minutes*)
..... 32, 41

Fundamentals of Filing
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 8) How to care for and handle files, clean files, and select different files for different metals. Supplementary filmstrip, same title, also available. (*OE 41; 12 minutes*)
..... 32, 41

Fundamentals of First Aid
U.S. Department of the Navy, 1943. (Personnel Damage Control Series) Fundamentals of first aid; battle station treatment of wounds, bomb blast, burns, fractures, and artificial respiration. Revision, same title, also available. (*MN 836–a; 18 minutes, color*)
..... 41

Fundamentals of First Aid
U.S. Department of the Navy, 1946. (Personnel Damage Control Series) Basic first aid: how to stop bleeding; restore breathing; cover burns and other wounds; apply splints on fractures; treat shock; carry victim. Revision. (*MN 6466–a; 11 minutes*)
..... 41

Fundamentals of Irrigation
U.S. Bureau of Reclamation, 1940. How to conserve irrigation water; apply it to avoid over watering certain types of land; estimate amount of water for various crops. (*30 minutes*)
..... 18

Fundamentals of Massage
U.S. Office of Education, 1945. (Nursing Series) Proper positions of patient for massage; how to perform superficial and deep stroking and the importance of rhythm in stroking; how to knead and use friction; value of each type of massage movement. Supplementary filmstrip, same title, also available. (*OE 414; 12 minutes*)
..... 32, 41

Fundamentals of Side Cutting Tools
U.S. Office of Education, 1942. (Machine Shop Work Series. Single Point Cutting Tools No. 1) How side cutting tools are shaped and how they cut; and how generated heat is dissipated. Supplementary filmstrip, same title, also available. (*OE 42; 11 minutes*)
..... 32, 41

Fundamentals of Stair Layout
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film; title self-explanatory. (*MN 6719–f; 11 minutes*)
..... 32, 41

Fundo in Chile
U.S. Coordinator of Inter-American Affairs, 1945. Life on the great fundos or ranches of South America; workers' communities and family life; use of modern methods of farming; activities of school and church. (*21 minutes*)
..... **32, 41**

Fungi Snare and Destroy Nematodes
U.S. Department of Agriculture, 1940. How certain fungi catch and devour nematodes; complicated process by which organic matter is broken down to enrich soil. (*4 minutes, color*)
..... **32, 41**

Fury in the Pacific
U.S. Department of the Navy and U.S. Marine Corps, 1944. World War II operations against Peleliu and Anguar: aerial and off-shore bombardments; close-ups of individuals in combat; view of Japanese throwing Bangolor torpedo at cameraman photographing him; statistics on supplies expended. (*MN 9045; 20 minutes*)
..... **14, 41**

Fury in the Pacific
U.S. Marine Corps and U.S. Department of the Navy, 1944. Invasion of Peleliu and Anguar Islands; aerial and off-shore bombardments; closeups of individuals in combat; view of Japanese throwing Bangolor torpedo at the cameraman photographing him; statistics on supplies expended. (*18 minutes*)
..... **15**

Fuselage Construction
U.S. Department of the Air Force, 1941. (Airplane Structures Series) Fuselage and loads exerted upon component parts; principle of truss construction and attachment of wing; use of bulkheads and longitudinal stringers. (*TF 1-213; 8 minutes*)
..... **7, 32, 41**

G and You
U.S. Department of the Navy, 1943. Problem and physical effects of high acceleration on pilots; effect of G on pilots; accelerometer and centrifuge; how to advance blackout threshold; how flying suits are fitted and how they increase efficiency and reduce blackout danger. Revision, "The ABC of G", also available. (*MN 2361; 50 minutes, color*)
..... **7**

Gage Blocks and Accessories
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 8) Why accessories are used with gage blocks; how to inspect a plug gage, an adjustable snap gage, a profile gage, a ring gage, and a screw-thread pitch. Supplementary filmstrip, same title, also available. (*OE 246; 23 minutes*)
..... **32, 41**

Galley Sanitation
U.S. Department of the Army, 1948. (The Stowaway Series No. 2) How all food service organizations should exercise every precaution to insure all sanitary measures in preventing the spread of disease. (*TF 8-1502; 24 minutes*)
..... **41**

Garrison on the Missouri
U.S. Department of the Army, 1950. Construction of Garrison Dam on the Missouri River in North Dakota; relationships to over-all Missouri River Basin Development program. (*23 minutes, color*)
..... **13**

Gastrointestinal Cancer: The Problem of Early Diagnosis
U.S. Public Health Service in cooperation with American Cancer Society, 1950. Early suspicion and accurate diagnosis permit effective surgical treatment of gastric cancer. For medical and nursing personnel. (*30 minutes, color*)
..... **26**

Gateway
U.S. Department of the Air Force, 1950. Career opportunities in Air Training Command in radar, electronics, communications, radio, airplane repair and maintenance, and other technical fields. (*SFP 245; 18 minutes*)
..... **11, 32, 41**

A General Comes Back
U.S. Economic Cooperation Administration, 1950. Gen. Mark Clark, Commander-in-Chief of the Allied war effort in the Italian Theatre, on his return to Italy after five years, pays informal tribute to Italian aid during war and describes changes since then. Entitled also "General Returns." (*10 minutes*)
..... **24**

General Motors Diesel Engine Unit Injectors: Disassembly and Reassembly Model 278
U.S. Department of the Navy, 1944. How to disassemble and reassemble General Motors Diesel Engine Unit injector model 278. (*MN 2769–b; 18 minutes*)
..... **41**

General Motors Diesel Engine Unit Injector: Maintenance
U.S. Department of the Navy, 1944. How to disassemble diesel engine unit injector, handle, clean and inspect. (*MN 2769–a; 18 minutes*)
..... **41**

General Pershing; ROTC At Work
U.S. Department of the Army, 1948. Highlights in the life of General John J. Pershing, including his funeral in 1948. Activities of the ROTC in encampment. (*AFSR 98; 21 minutes*)
..... **41**

General Sheet Metal Practice
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1944. (How to Form Aluminum Series) Sheet-metal working techniques; aluminum alloys; heat treatment; degrees of hardness; shaping; choice of tools; stresses; and flow of metal. (*21 minutes*)
..... **17**

Geography of the Japanese Empire
U.S. Department of the Army, 1945. Geographical position, topography, addition of territory and industries of the pre-war Japanese Empire. (*M 1057; 19 minutes*)
..... **41**

Give Your Baby a Name
U.S. Bureau of Indian Affairs in cooperation with U.S. Bureau of Vital Statistics, 1947. Why Navajos should register their children at birth; techniques of registration. Primarily for Navajo Indian audience. Navajo version. (*25 minutes, color*)
..... **34**

Giving a Shop Demonstration
U.S. Department of the Navy, 1942. How to prepare and conduct detailed demonstration on forming flanged tray with shrinking mallet and bending blocks. (*MN 188; 17 minutes*)
..... **41**

Glamour Gal
U.S. Marine Corps, 1945. Life of 155mm. howitzer before and during Battle of Iwo Jima; how members of fighting forces, other than infantry, live and work during combat. (*15 minutes, color*)
..... **15**

The Golden Secret
U.S. Department of Agriculture, 1946. Cartoon movie on conservation; fairy story about the son of the king's chief huntsman who stopped the golden soil from washing away and was rewarded with the realm's best farm. (*5 minutes, color*)
..... **4, 32, 41**

Good Neighbor Family
U.S. Coordinator of Inter-American Affairs, 1943. Latin American family life; social and religious customs; contrast with U.S. way of life; economic changes due to industrial revolution in Latin America. (*17 minutes*)
..... **32, 41**

G.I. Quiz No. 5; Our American Heritage
U.S. Department of the Army, 1949. Professor presents latest exams. How U.S. Constitution and Bill of Rights grant freedom to individual American citizen. (*AFSR 107; 21 minutes*)
..... **41**

The Government of Japan
U.S. Department of the Army, 1945. Nature of Japan's Government and the filial devotion demanded by both the Emperor and the State. Composed of captured and pre-war Japanese movies. (*M 1058; 18 minutes*)
..... **41**

The Grain that Built a Hemisphere
U.S. Coordinator of Inter-American Affairs, 1943. Importance of corn to civilization; development of corn; present day cultivation; wide variety of uses. Animated cartoon. Portuguese version "Milho, O Gráo Que Foi O Alicerce de um Hemisfério", and Spanish version "La Semilla de Oro", also available. (*11 minutes, color*)
..... **32, 37**

Grass and Brush Fire Fighting
U.S. Department of Agriculture, 1945. Training film on volunteer crew organization, tools, and tactics employed in fighting grass and brush fires on Utah ranges and in surrounding States. (*28 minutes, color*)
..... **3, 32, 41**

Grass and Cattle
U.S. Department of Agriculture, 1950. How U.S. Forest Service is developing range resources of National Forests for maximum use in the grazing of cattle. (*16 minutes, color*)
..... **3, 32, 41**

Grass Is Gold
U.S. Bureau of Indian Affairs [1948?] How a Wyoming Shoshone Indian with the aid of the U.S. Indian Service becomes a successful cattleman when he learns the value of grass. (*18 minutes, color*)
..... **34**

Grassland
U.S. Department of Agriculture, 1944. Effect of overstocking and overgrazing in Western range country upon erosion; prevention of overgrazing and restoration to productivity. Spanish version "Los Pastos" also available. (*10 minutes*)
..... **4, 32, 41**

Gravel and Rock Surfaces
U.S. Department of the Army, 1943. (Military Roads Series No. 6) Principles of gradation, including selection of materials; methods of placing selected material on road base. (*TF 5-1198; 8 minutes*)
..... **41**

Great Lakes
U.S. Coast Guard, 1946. Shipping and other scenes of interest on America's Great Lakes ports; ice breaking by Coast Guard cutter. (*20 minutes*)
..... **21**

The Greatest Good
U.S. Department of Agriculture, 1950. Documentary film on Gifford Pinchot, conservationist and forester; development of conservation principles; their influence on national forest management. Photographed in Gifford Pinchot National Forest, Washington. (*10 minutes, color*)
..... **3, 32, 41**

Grinding a Deep Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 2) How to grind the backing pins and work-holding jaws of a three-jaw chuck to hold the workpiece; set length of stroke and breakthrough; correct for taper and bellmouth; and check a deep hole with an inside micrometer. Supplementary filmstrip, same title, also available. (*OE 78; 18 minutes*)
..... **32, 41**

Grinding a Parallel Bar. Part 1: Setting Up the Machine
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 1) How to mount a grinding wheel; position the diamond tool and true the wheel; operate a magnetic chuck; use the controls of the grinder; and grind the face of the chuck.

Supplementary filmstrip, same title, also available. (*OE 220; 14 minutes*)
..... **32, 41**

Grinding a Parallel Bar. Part 2: Grinding Operations
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 2) How to position the parallel bar on the chuck; rough-grind the opposite sides of the bar; rough-grind adjacent sides of the bar at exact right angles; and finish-grind all four sides. Supplementary filmstrip, same title, also available. (*OE 221; 15 minutes*)
..... **32, 41**

Grinding a Plain Pin. Part 1: The Grinding Wheel
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 1) Cutting action of a grinding wheel; how to select the correct grinding wheel; handle and mount the wheel on the collet; and true and balance the wheel. Supplementary filmstrip, same title, also available. (*OE 80; 17 minutes*)
..... **32, 41**

Grinding a Plain Pin. Part 2: Grinding Operations
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 2) How to lubricate and set up a center-type grinder; mount and adjust the workpiece for proper tension between centers; set the table reversing dogs; and roughgrind a plain pin. Supplementary filmstrip, same title, also available. (*OE 81; 17 minutes*)
..... **32, 41**

Grinding a Slender Shaft With a Back Rest
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 3) How to select and set up a back rest; adjust the back rest during grinding; rough- and finish-grind the long shaft; and check and adjust the taper. Supplementary filmstrip, same title, also available. (*OE 82; 17 minutes*)
..... **32, 41**

Grinding a Straight Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 1) How to use a universal chuck; select the proper grinding wheel and adjust the wheel speed; set the length of the stroke; set the cross-feed for automatic grinding; and use the precision cross-feed for finishing grinding. Supplementary filmstrip, same title, also available. (*OE 77; 18 minutes*)
..... **32, 41**

Grinding a Taper
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 5) How to prepare an arbor for grinding; mount and adjust the arbor between centers; adjust the swivel table and taper scale; rough- and finish-grind the taper; and check the taper ring gage and light gage. Supplementary filmstrip, same title, also available. (*OE 84; 19 minutes*)
..... **32, 41**

Grinding a Template
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 3) How to mount and true the wheel; mount the sine bar on the table; set the sine bar for specified angles; set up the template on the sine bar; rough- and finish-grind the template; and check the workpiece for accuracy. Supplementary filmstrip, same title, also available. (*OE 222; 15 minutes*)
..... **32, 41**

Grinding a V Block
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 4) How to set up a V block to grind the ends and the V; rough- and finish-grind the ends; establish reference points for grinding the V to precision dimensions; and check the work for accuracy. Supplementary film-

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strip, same title, also available. (*OE 223; 22 minutes*)
..... 32, 41

Grinding and Facing a Blind Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 3) How to mount and dress the wheels on the two-spindle grinder; plunge-grind the bore and adjust for taper; and grind the shoulder and flange parallel at right angles to the bore. Supplementary filmstrip, same title, also available. (*OE 79; 17 minutes*)
..... 32, 41

Grinding Multiple-Point Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 3) How to resharpen by grinding a dull carbide milling cutter; grind individual teeth off-hand; circle-grind; surface-grind; and finish surfaces and edges by honing. Supplementary filmstrip, same title, also available. (*OE 243; 20 minutes*)
..... 32, 41

Grinding Single-Point Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 2) How to semi-finish and finish-grind a dull tool; rough-grind a chipped or broken tip; grind a newly brazed tool; and grind a chip breaker. Supplementary filmstrip, same title, also available. (*OE 242; 26 minutes*)
..... 32, 41

Grinding Thin Discs
U.S. Office of Eduction, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 5) How to true the grinding wheel; load and operate the magnetic chuck; rough-grind the discs; finish-grind the discs to precision measurements; and check for accuracy and parallelism. Supplementary filmstrip, same title, also available. (*OE 224; 15 minutes*)
..... 32, 41

Griscom-Russell, How It Works. Part 1
U.S. Department of the Navy, 1944. (Distilling Plants Series. Low Pressure Type) Principles of operation of low-pressure distilling plant (Griscom-Russell): development of a simple effect distilling plant; its parts and their function. Animation. (*MN 3706–a; 13 minutes*)
..... 41

Griscom-Russell, How It Works. Part 2
U.S. Department of the Navy, 1944. (Distilling Plants Series. Low Pressure Type) Double effect distilling plant; its parts, construction and operation; various units of typical plant; flow of water, steam, vapor and condensate through the system. Animation. (*MN 3706–b; 18 minutes*)
..... 41

Ground Controlled Approach
U.S. Department of the Navy, 1949. Principles and operation of GCA on field and in a plane. (*MN 6694; 38 minutes*)
..... 41

Ground Crew Safety
U.S. Department of the Air Force, 1944. Causes and correction of common hangar safety hazards: causes of spontaneous combustion; "dont's" when working with batteries, torches, gasoline, drop chords, etc.; precautions when refueling and starting plane. (*TF 1–3345; 17 minutes*)
..... 7

The Ground Team: Designed for Victory
U.S. Department of the Army, 1945. How World War II achievements of infantry, artillery, and airborne troops derived from coordinated action and teamwork. Revision. (*M 1275; 9 minutes*)
..... 41

Ground Ways
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series. Preparation for Stern Launching) Purpose and principal parts of land and underwater ways; reconditioning of forward port side tim-

bers on a model. (*MN 2341–c; 21 minutes*)
..... **41**

Grow Your Own
U.S. Department of Agriculture, 1945. Essentials of good gardening; site selection, soil preparation, garden layout, planting, transplanting, cultivation, weed and pest control, and watering; stop-motion photography dream sequence on plant growth; humorous gardening "DON'TS." (*20 minutes*)
..... **32, 41**

Guadalajara
U.S. Coordinator of Inter-American Affairs with cooperation of Mexican Tourist Bureau, 1943. Tourist view of the city. (*17 minutes, color*)
..... **32, 41**

Guardians of the Wild
U.S. Department of Agriculture, 1943. Daily duties, ideals of public service and contributions of forest rangers in U.S. National Forests. Short version of "The Forest Ranger" also available. (*11 minutes*)
..... **3, 32, 41**

Guarding Against Sabotage
U.S. Department of the Army, 1943. Saboteur's techniques; psychological and physical sabotage; ideal precautions against sabotage in a defense plant. (*TF 19–2032; 45 minutes*)
..... **41**

Guerra ao Piolho
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Kill the Louse." Spanish version "El Tifo" also available. (*8 minutes, color*)
..... **37**

The Guided Bend Test
U.S. Office of Education, 1944. (Welding Procedures Series. Testing No. 1) How to prepare groove weld and fillet weld test specimens for the guided bend test; make the test; and causes of failure in bending. Supplementary filmstrip, same title, also available. (*OE 189; 17 minutes*)
..... **32, 41**

Guillotine Amputation of the Lower Extremity
U.S. Department of the Navy, 1944. (Amputations Series No. 1) Two basic indications for amputations: irreparable interference with blood supply and massive infection which cannot be controlled; how to select proper site of election before amputation. Special film for medical personnel. (*MN 3429–a; 12 minutes, color*)
..... **41**

The Gyro Becomes a Compass
U.S. Department of the Navy, 1944. (Gyro Compass Series) Why gyroscope, acting as compass, turns toward meridian; how motion is damped; kept on meridian; simplified models of pendulous and mercury ballistic type compasses. (*MN 1792–d; 15 minutes*)
..... **7**

The Gyroscope and Gravitation
U.S. Department of the Navy, 1944. (The Gyro Compass Series) Theory and operation of pendulous and mercury ballistic type compasses; effect of gravity on gyroscope; operation of Arma Pendulous Compass and Sperry Mercury Ballistic Compass. (*MN 1792–c; 12 minutes*)
..... **7, 41**

The Gyroscope and the Earth's Rotation
U.S. Department of the Navy, 1944. (The Gyro Compass Series) How a simple gyroscope becomes a gyro compass; principles of rigidity and precession and apparent rotation and gravity. Animated drawings. (*MN 1792–b; 10 minutes*)
..... **7, 41**

Habits and Characteristics of the Norway Rat
U.S. Public Health Service, 1950. (Rodent Control Series No. 2) The Norway rat, parasite of man, its characteristics and habits: lives in colonies near garbage piles and city dumps, travels at night along established runways, can gnaw, climb, and burrow. (*M 37–b; 28 minutes*)
..... **27, 41**

Habits and Characteristics of the Roof Rat
U.S. Public Service, 1950. (Rodent Control Series No. 3) The roof rat lives above ground, especially under roof eaves; climbs pipes and brick walls, runs along wires; is a pantry thief, fond of cereals. (*M 37–c; 14 minutes*)
..... **27, 32, 41**

Hacksaws
U.S. Department of the Army, 1943 (Care and Use of Hand Tools Series No. 6) Hacksaws; proper and improper uses; various types of frames and their specific uses. (*TF 9–2031; 18 minutes*)
..... **32, 41**

"Hail, Alma Mater"
U.S. Department of the Army, 1951. West Point choir singing "Hail Alma Mater" and "Army Blue" with background scenes of West Point. (*M 7805; 6 minutes*)
..... **12**

Half a Chance
U.S. Department of the Army, 1946. Orthopedic rehabilitation study primarily to assist amputees in personal psychological adjustments. Based on rehabilitation of Lt. Bert R. Shepard, USAAF. (*M 1254; 10 minutes*)
..... **41**

The Halifax Incident
U.S. Department of the Navy, 1942. (Rules of the Nautical Road Series) How misinterpretation of ship's whistle caused Halifax incident; international rules; importance of taking bearings; definition of nautical terms, proper lookout; good seamanship, inevitable accident and marine collision law. Animation throughout. (*MN 202–a; 6 minutes*)
..... **41**

Hamilton Constant Speed, Removal and Disassembly
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) How to remove Hamilton constant speed propeller from plane and disassemble it for inspection and repair; safety precautions, tools used and protection of shaft. (*TF 1–286; 20 minutes*)
..... **7**

Hamilton Hydromatic, Propeller Installation
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) How to put propeller on shaft, install distributor valve, oil seals, and retaining nut, and mount dome in place. (*TF 1–455; 13 minutes*)
..... **7**

Hamilton Hydromatic, Reassembly and Adjustment. Parts 1 and 2
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) Reassembly of hub, blades, dome and distributor valve; tools, guide marks, permissible tolerances and tests for concentricity, balance, gear preload and operation under high oil pressure. (*TF 1–454; 44 minutes*)
..... **7**

Hamilton Hydromatic, Servicing
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) Dismantling, cleaning and inspecting hydromatic propeller: washing of parts; magnetic inspection of ferrous parts, and inspection of blades and distributor valve. (*TF 1–453; 8 minutes*)
..... **7**

Hamilton Hydromatic, Theory and Operation
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) Operations of crew chief and pilot in warming up, checking, taking off, climbing, cruising, emergency and practice feathering, landing, and stopping the Hamilton Hydromatic propeller. Construction and mechanism of variable pitch propeller in models, diagrams, and airplanes. (*TF 1–451; 17 minutes*)
..... **7, 32, 41**

Hammers
U.S. Department of the Army, 1943. (Care and Use of Hand Tools Series No. 4) Care and use of machinist's ball, straight and cross peen hammers, sledge

hammer, and carpenter's claw hammer. (*TF 9–2029; 11 minutes*)
..... **32, 41**

Hand Ditching for Malaria Control
U.S. Public Health Service, 1948. (Malaria Control Series) How permanent drainage solves mosquito problem in areas of high mosquito count with reclaimed land offsetting cost of construction. Principles of hand ditch construction. (*CDC–4–047; 6 minutes, color*)
..... **27**

Hand Soldering
U.S. Office of Education, 1944. (Accessory Assembly Series. Tools and Procedures No. 1) Theory of soldering; how to prepare soldering irons and torches; clean and prepare the work; fasten joints; solder wire and lug joints; and seal seams. Animation. Supplementary filmstrip, same title, also available. (*OE 479; 20 minutes*)
..... **32, 41**

Handicraft Town
U.S. Economic Cooperation Administration, 1950. How the importation of Marshall Plan steel for the manufacture of hand-wrought cutlery revived a small North Italian town, Maniago, dependent for its livelihood upon this industry since the 14th century. (*10 minutes*)
..... **24**

Handling Livestock for Market
U.S. Office of Education, 1945. (Farm Work Series. Livestock No. 3) Causes of losses in marketing livestock; how to prevent injuries to livestock on the farm, before shipment, when loading, and during shipment. Supplementary filmstrip, same title, also available. (*OE 459; 21 minutes*)
..... **32, 41**

Handling a Lifeboat Under Oars. Part 1: Rowing
U.S. Coast Guard, 1943. Proper wrist and body movement in rowing, and the four phases of a complete stroke. Straight photography and stop frames. (*12 minutes*)
..... **41**

Handling a Lifeboat Under Oars. Part 2: Commands
U.S. Coast Guard, 1943. Various commands of the coxswain pertinent to handling a lifeboat; proper stance for coxswain and men. (*10 minutes*)
..... **41**

Hang On
U.S. Veterans' Administration, 1946. Trailer to encourage retaining National Service Life Insurance. (*1½ minutes*)
..... **31**

Hannibal Victory
U.S. Maritime Commission, 1946. How victory ship, *SS Hannibal Victory*, delivered a cargo of 8 railroad locomotives, tenders, flatcars, rails etc. from San Francisco to the Army in the Philippines; manufacture of cargo in Hannibal, Mo.; loading; life and work on voyage. (*60 minutes, color*)
..... **32**

Hardness Testing (Rockwell)
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 5) Need for hardness testing; how to set up the Rockwell Hardness Tester; select and seat the penetrator; select and mount the anvil; test the accuracy and adjust the timing of the machine; and test flat and curved surfaces. Supplementary filmstrip, same title, also available. (*OE 149; 18 minutes*)
..... **32, 41**

Harnessing Floods
U.S. Department of the Army, 1950. Construction of a large earth dam and benefits derived from such a structure. (*14 minutes, color*)
..... **13**

Harvesting Native Grass Seed
U.S. Department of Agriculture, 1945. Soil and water conservation value of native grass seed; tall and short grass harvesting methods; mechanical changes

needed to use standard combine; seed cleaning methods. (*10 minutes, color*)
..... 4, 32, 41

Harvests for Tomorrow
U.S. Department of Agriculture, 1941. New England's basic soil conservation need; sound pasture improvement program; soil building practices used in Northeast States. (*27 minutes*)
..... 32, 41

Hatch Canopy. Part 1: Measuring and Drawing
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sailmaking) Title self-explanatory. Supplementary filmstrip, same title, also available. (*MN 2343–b; 21 minutes*)
..... 41

Hatch Canopy. Part 2: Layout
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sailmaking) Title self-explanatory. Supplementary filmstrip, same title, also available. (*MN 2343–c; 25 minutes*)
..... 41

Hatch Canopy. Part 3: Machining and Finishing-Off
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sailmaking) Title self-explanatory. Supplementary filmstrip, same title, also available. (*MN 2343–d; 21 minutes*)
..... 41

Haunts for the Hunted
U.S. Fish and Wildlife Service, 1941. How to maintain suitable wildlife habitat on National Wildlife Refuges; views of many species of ducks, geese, rare trumpeter swan, and whooping cranes. (*30 minutes, color, silent*)
..... 20

Hay Is What You Make It
U.S. Department of Agriculture, 1946. Hay quality improvement by cutting at right stage of growth; curing; retaining leaves for proteins. (*18 minutes, color*)
..... 32, 41

Hay que Alimentar la Tierra
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "The Land Must Eat." Portuguese version "Como Cuidar Da Terra" also available. (*9 minutes, color*)
..... 37

Head Injury
U.S. Department of the Navy, 1945. (Medicine in Action Series No. 8. Report of a Battle Casualty) How one kind of head injury was treated; cranial operation from beginning to end; surgical and medical techniques. Special film for medical personnel. (*MN 3726–h; 10 minutes, color*)
..... 41

Health Education Against Malaria
U.S. Public Health Service, 1947. (Malaria Control Series) Sumter, S. C., teacher provides hometown with essential malaria control and mosquito elimination data after health education course at Memphis, Tenn., sponsored by local, state, and Federal public health officials. (*CDC–4–010; 6 minutes*)
..... 27

Heart of the Inca Empire
U.S. Coordinator of Inter-American Affairs, 1943. Study of the ruins of the famous Inca city of Machu Picchu near Cuzco, Peru. (*19 minutes, color*)
..... 32, 41

Heat and Its Control
U.S. Bureau of Mines in cooperation with Johns-Manville Corp., 1942. History of heat: sun worship, James Watt's research. Three heat transfer methods in steam boiler: radiation, convection, conduction. Manufacture and use of insulation: magnesia, rock-wool, asbestos, celite. (*20 minutes*)
..... 17

Heat Exhaustion, Sunstroke and Burns
U.S. Department of the Navy, 1947. (Personnel Damage Control Series) How to recognize and treat heat stroke and exhaustion, and 1st, 2nd, and 3rd degree

burns. Revision of "Bomb Blast and Burns," also available. (*MN 6466–b; 8 minutes*)
..... **41**

Heat Treatment of Aluminum. Film 1
U.S. Office of Education, 1945. (Engineering Series) Purpose of heat treatment; microstructure changes; aging or precipitation hardening; effects of heat treatment on the physical properties of aluminum. Supplementary filmstrip, same title, also available. (*OE 344; 19 minutes*)
..... **32, 41**

Heat Treatment of Aluminum. Film 2
U.S. Office of Education, 1945. (Engineering Series) Nature of cold working operations; microstructure changes during cold working and during annealing; cold working and annealing operations. Supplementary filmstrip, same title, also available. (*OE 345; 24 minutes*)
..... **32, 41**

Height Gages and Test Indicators
U.S. Office of Education, 1941. (Machine Shop Work Series. Precision Measurement No. 5) Fundamental principles of the vernier height gage; various forms of standard indicators and their uses. Supplementary filmstrip, same title, also available. (*OE 5; 12 minutes*)
..... **32, 41**

Hell for Leather
U.S. Department of the Army, 1946. (Pride of the Outfit Series) History of First Cavalry Division; how the soldiers endured the hardships of jungle fighting on Leyte and were first to enter Manila and Tokyo. (*M 1278; 10 minutes*)
..... **12, 32, 41**

Help Wanted
U.S. Bureau of Mines in cooperation with Johnson & Johnson Co., 1943. Basic first aid principles: blood circulation, pressure points, treatment of bleeding and burns, uses of compresses, procedures in artificial respiration, treatment of simple and compound fractures, use of splints, and transporting the injured. Includes animated diagrams. (*30 minutes*)
..... **17**

Help Wanted
U.S. Public Health Service with the cooperation of Johnson and Johnson Co., 1942. Basic principles of first aid and general procedure in caring for victims before the doctor arrives. (*26 minutes*)
..... **26**

The Helping Hand; Sky Jeep
U.S. Department of the Army, 1949. How U.S. Occupation forces are assisting in Japan's economic recovery. Capabilities, efficiency, and tactical aid of light airplane to Army. (*AFSR 105; 18 minutes*)
..... **41**

Hemolytic Streptococcus Control
U.S. Department of the Navy, 1945. Need for more careful diagnosis of streptococcus cases in sick bay; use of better control measures in barracks and dispensaries, especially during epidemics. (*MN 4393; 13 minutes*)
..... **41**

Henry's Story
U.S. Economic Cooperation Administration, 1950. How the French barge fleet on the Rhine was rebuilt with prefabricated barges imported from the United States under the Marshall Plan and how this fleet contributed to French recovery. Henry, a little Strasburg busybody, describes how one of these barges eventually reached the individual owner. (*12 minutes*)
..... **24**

Herald Tribune Youth Forum
U.S. Department of State, 1950. A visit to the United States of 25 students from Eastern and Middle Asia; their participation in the fifth annual forum for high-school students held by the N.Y. Herald Tribune; and their impressions of the United States. 2nd ed. Released through U.S. Office of Education for

educational use in the United States. (*38 minutes*)
..... **32, 41**

A Heritage We Guard
U.S. Department of Agriculture, 1940. Early exploitation of wildlife and land by trappers and settlers; resultant denudation, soil erosion and dust storms; interrelation of wildlife and soil conservation. (*30 minutes*)
..... **4, 32, 41**

Hidden Power
U.S. Economic Cooperation Administration, 1950. How E.C.A. financing and imported American machinery have harnessed the hot steam and natural gases of Tuscany to turn electric turbines and produce, as a by-product, borax for export. (*10 minutes*)
..... **24**

The Hidden Army
U.S. Department of the Army, 1944. Adolf Hitler in allied prison after war, writes in his memoirs his underestimation of American woman power in war industry. How American women produced weapons and material. (*WF 25; 17 minutes*)
..... **41**

High Frequency Soldering
U.S. Office of Education, 1944. (Accessory Assembly Series. Tools and Procedures No. 2) Theory of high frequency heating; how to select work coil and leads; tune a converter; determine correct soldering time and temperature; and use an automatic timer. Supplementary filmstrip, same title, also available. (*OE 480; 17 minutes*)
..... **32, 41**

High Impact Shock on Electrical Equipment
U.S. Department of the Navy, 1944. Effect of near-miss explosions on ships; results of high pressure vibrations and direct hit; factory testing of equipment for shock proof qualities; danger of near-miss explosions. Straight photography and animation. (*MN 3470; 19 minutes*)
..... **41**

High Over the Border
U.S. Coordinator of Inter-American Affairs, 1941. Migrations of humming birds, wild ducks and other birds between North and South America. Live photography and animated maps. (*21 minutes*)
..... **32**

High Plain
U.S. Coordinator of Inter-American Affairs, 1943. How the landlord of a large agricultural estate on the high plains of Bolivia, whose family has owned the land for 300 years, controls the labor and lives of his 5,000 workers, descendants of the Aymara tribe who retain their primitive customs and modes of work and life. (*20 minutes*)
..... **32, 41**

High Spots of a High Country
U.S. Coordinator of Inter-American Affairs, 1942. (Guatemala Sketch Book Series No. 1) General view of Guatemala: scenery, volcanoes, markets, crafts, coffee plantations. (*19 minutes, color*)
..... **32, 41**

Higher and Faster
U.S. Department of the Army, 1948. (Armed Forces Screen Reports Series No. 99) Rapid advancement in the construction of airplanes since Wright Brothers; role of airplanes in achieving victory in World Wars I and II. (*AFSR 99; 19 minutes*)
..... **41**

Highline: The Columbia River Power System
U.S. Bonneville Power Administration, 1950. Construction and operation of Federal transmission network of Bonneville Power administration for marketing hydro-electric power from Bonneville and Grand Coulee Dams; integration of various plants in system. (*20 minutes*)
..... **16, 33**

Highway Soil Engineering
U.S. Bureau of Public Roads, 1949. How to survey and sample in the field and test in the laboratory subgrade soils found in highway construction. Tests used by Bureau of Public Roads' Physical Re-

search Branch and many State Highway Departments in accordance with American Association of State Highway Officials' standards. (*110 minutes, color*)
..... **6**

Hill Towns of Guatemala
U.S. Coordinator of Inter-American Affairs, 1942. (Guatemala Sketch Book Series No. 2) Market of Chichicastenango and a village on Lake Alitlan; Indians' daily life, crafts, clothing, and age-old customs. (*10 minutes, color*)
..... **32, 41**

History of Lighter Than Air Rigid Airships
U.S. Department of the Navy, 1946. Development of lighter than air craft. (*MN 2722–d; 40 minutes*)
..... **14**

Hit the Beach
U.S. Department of the Army, 1950. Coverage of "Operation Miki" (Hawaiian for "readiness") joint Army-Navy rehearsal maneuvers on Oahu, Hawaii, October 1949 with 2nd Infantry Division and Navy Task Force One. (*M 7727; 18 minutes*)
..... **12**

Hobbing a Helical Gear, Two Cuts: Nondifferential Method
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 5) How to set up the change gears; adjust the swivel head to cut on the helix angle; set up the machine for the rough cut; and realign hob and gear teeth. Supplementary filmstrip, same title, also available. (*OE 235; 17 minutes*)
..... **32, 41**

Hobbing a Spur Gear. Part 1: Setting Up the Change Gears
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 1) Selection of the hob; how to select change-gear combinations for speed, feed, and index; identify the correct gears; mount the change gears; adjust for backlash; and how the change-gear trains are interrelated. Supplementary filmstrip, same title, also available. (*OE 231; 15 minutes*)
..... **32, 41**

Hobbing a Spur Gear. Part 2: Setting Up and Hobbing the Work
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 2) How to select and mount the hob; set the swivel head angle; choose and mount the fixture; lead the gear blanks; set up for depth of trial cut; and adjust for full depth of cut. Supplementary filmstrip, same title, also available. (*OE 232; 24 minutes*)
..... **32, 41**

Hobbing a Square Tooth Spline Shaft
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 3) How to change hob arbors; centralize the hob with the centering gage; mount the center-type fixture and the top adjustable center; use a driving dog in mounting the spline shaft blank; set up for the trial cut; and take full depth of cut. Supplementary filmstrip, same title, also available. (*OE 233; 17 minutes*)
..... **32, 41**

Hobbing a Worm Gear: Infeed Method
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 4) Angle at which to set the swivel head; how to calculate and adjust the height of the hob arbor; engage horizontal feed; centralize the hob; and cut to a center distance. Supplementary filmstrip, same title, also available. (*OE 234; 18 minutes*)
..... **32, 41**

Hoffman Special
U.S. Economic Cooperation Administration, 1950. ECA Administrator Paul Hoffman's farewell tour of many European countries participating in the Marshall Plan; France, Germany, Norway, Bel-

gium, Holland, Italy, Greece, and United Kingdom. Special edition of "ERP in Action." (*10 minutes*)
..... 24

Home Life and Social Customs of the Japanese
U.S. Department of the Army, 1945. Struggle between ancient and modern way of life: ancestral customs, formalities of worship, recreation, business routines, and educational training. (*M 1062; 37 minutes*)
..... 41

Home Loan
U.S. Veterans' Administration, 1946. How veterans get GI loans for homes. Animated cartoon. (*5 minutes*)
..... 31

Home on the Range
U.S. Department of Agriculture, 1946. Improvements of Government's range program; properly located water holes, windmills, and watering tanks; deferred grazing; contour furrows; ranch scenes of round-up, branding, vaccine injection. Revision. (*9 minutes*)
..... 32, 41

The Home We Love
U.S. Economic Cooperation Administration, 1950. Recovery of Mazamet, famous wool-processing town in France, by means of renewed wool and hide shipments made possible through Marshall Aid. American version. (*15 minutes*)
..... 24

Hookworm
U.S. Institute of Inter-American Affairs, 1946. (Health For the Americas Series) How a family is reduced to weakness and poverty by hookworms and how they rid themselves of illness. Emphasizes mode of infection and preventative measures. Animated cartoon. Portuguese version "Uncinariose (Opilacao)" and Spanish version "Uncinariasis" also available. (*10 minutes, color*)
..... 32, 37

Hoover Dam
U.S. Bureau of Reclamation [1950?] How Boulder Dam was constructed; work shots; desert and water scenery; significance of project. (*35 minutes*)
..... 18

Hoover Dam
U.S. Bureau of Reclamation [1940?] How Boulder Dam was constructed; work shots; desert and water scenery; significance of project. (*40 minutes, silent*)
..... 18

Hoover Dam
U.S. Department of State, 1949. How Colorado River was dammed to supply irrigation water and electrical power for Southwestern United States; relationships between Federal government, States, and individual citizens. Released through U.S. Office of Education for educational use in the United States. (*33 minutes*)
..... 32, 41

Horsemastership: Care of Animals in the Field
U.S. Department of the Army, 1943. Complete care of the horse by the trooper in the field, including rest periods, inspection of the hoofs, noting all reins, cinches, etc. (*TF 2–1267; 31 minutes*)
..... 41

Horses and Bots
U.S. Department of Agriculture, 1933. Injuries to horses and mules of three types of bot flies; methods of treatment; eradication campaigns. (*25 minutes, silent*)
..... 32, 41

Horseshoeing
U.S. Office of Education, 1944. (Farm Work Series. Livestock No. 2) How to handle a horse during shoeing; prepare the feet; select, fit, and nail on shoes; take off shoes; tighten old shoes on a horse. Supplementary filmstrip, same title, also available. (*OE 458; 19 minutes*)
..... 32, 41

La Hortaliza en Casa
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Better Eating." Portuguese version "Hortas" also available. (*7 minutes, color*)
..... 37

Hortas
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Better Eating." Spanish version "La Hortaliza en Casa" also available. (*7 minutes, color*)
..... **37**

Hospital Food Service Personnel Training. Part 1: Introduction
U.S. Department of the Army, 1949. How to operate hospital diet kitchen; time and prepare food in each department of the kitchen and serve. (*TF 8–1575; 17 minutes*)
..... **41**

Hospital Food Service Personnel Training. Part 2: The Individual
U.S. Department of the Army, 1949. Ways to prevent communicable diseases associated with improper food handling; health, cleanliness, personal appearance, and sanitary work habits. (*TF 8–1576; 13 minutes*)
..... **41**

Hospital Food Service Personnel Training. Part 3: Equipment
U.S. Department of the Army, 1949. Rules for cleaning kitchen equipment; importance of the dishwasher's job. (*TF 8–1577; 12 minutes*)
..... **41**

Housing in Chile
U.S. Coordinator of Inter-American Affairs, 1943. Progressive steps being taken by Chile in housing; how a family in Santiago lived first in the slums and then in a new housing project. (*19 minutes*)
..... **32, 41**

How Animal Life Begins
U.S. Department of Agriculture in cooperation with American Film Center, 1939. Prologue to life; time-lapse cinematography of ovulation, fertilization, and early development of mammalian (rabbit) egg. Second prize, International Exposition of Agricultural Films, Rome, May 20–27, 1940. Short version of "In the Beginning." Long silent version, "Ovulation, Fertilization, and Early Development of the Mammalian Egg" also available. (*10 minutes*)
..... **32, 41**

How Disease Travels
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) How disease microbes spread in a community: flies, water, and person-to-person contact. Necessary precautions to be taken at source to prevent the spread of diseases. Animated cartoon. Formerly entitled "Transmission of Disease." Portuguese version "Transmissao Das Doenca" and Spanish version "La Enfermedad Se Propaga" also available. (*11 minutes, color*)
..... **32, 37**

How Seeds Germinate
U.S. Department of Agriculture, 1931. Germination of crimson clover and spring vetch over periods of 3 to 7 days; slow-motion screen studies of plant growth. (*9 minutes, silent*)
..... **32, 41**

How to Braze Aluminum
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1946. Joining thin aluminum sections by brazing; furnace, dip and torch brazing; difference from welding; cleaning surfaces; alloys used; temperature differentials. (*7 minutes*)
..... **17**

How To Check and Surface Foundations
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 1) How to check the location of machinery foundations to blueprint specifications; align and level foundations; surface or smooth foundations. Supplementary filmstrip, same title, also available. (*OE 95; 19 minutes*)
..... **32, 41**

How To Fly the B-25
U.S. Department of the Air Force, 1944. Pre-flight inspection and cockpit check of B–25; normal take-off; short field take-off; normal climb; a stall and recovery; dive bombing; automatic pilot; flight

and landing on one engine; operation of instruments. (*TF 1–3360; 25 minutes*)
..... 7

How To Fly the B-26 Airplane
U.S. Department of the Air Force, 1943. Pre-flight check; engine starting; take-off; flight characteristics of plane; instrument reading and setting in flight; simple maneuvers; normal stall and recovery; flying on one engine and emergency landing. For B–26 pilots. (*TF 1–3301; 48 minutes*)
..... 7

How To Grow Hogs
U.S. Department of Agriculture, 1930. Duroc-Jersey, Poland China, Chester White, and Tamworth boars, sows, and gilts; approved practices in feeding, pasturing, weaning, and preventing parasitic and other diseases developed at U.S. Department of Agriculture Research Center, Beltsville, Md. (*22 minutes, silent*)
..... 32, 41

How to Machine Aluminum
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1942. Alloys of cast and wrought aluminum; effect of alloying, heat treating, and cold working on machinability; use of hand and machine tools. (*32 minutes*)
..... 17

How to Rivet Aluminum
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1942. Making different types of rivets; heat and cold treatment; riveting by hand, pneumatic hammer, and squeeze riveters; use of bucking-upset or dolly; blind riveting; use of explosive rivets; testing and removing defective rivets. (*27 minutes*)
..... 17

How to Use Navigational Aids
U.S. Department of the Navy, 1944. (Aids to Navigation Series) How to use navigational aids and interpret symbols on nautical charts. (*MN 202–ac; 7 minutes, color*)
..... 41

H_2O
U.S. Department of the Army in cooperation with National American Red Cross, 1948. Water safety on Corps of Engineers' large floating work plants, reservoirs, and dams. (*34 minutes, color*)
..... 13

The Human Body
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) Value of the human body and one's responsibility for its proper care. How the parts of the body work. An animated cartoon. Portuguese version "O Corpo Humano" and Spanish version "El Cuerpo Humano" also available. (*9 minutes, color*)
..... 32, 37

Hurricane Circuit
U.S. Department of State, 1949. How warning center, Miami, Fla., reduces hurricane menace in Caribbean and Gulf of Mexico; operation of system; precautions against damage; rescue and relief measures; international aspects; nature of hurricanes in animation. Released through U.S. Office of Education for educational use in the United States. (*23 minutes*)
..... 32, 41

The Hydraulic Brake System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 7) How to check brake pedal travel; examine the brake lining; adjust the brake shoes; and inspect and adjust the hydraulic brake fluid system. Supplementary filmstrip, same title, also available. (*OE 483; 12 minutes*)
..... 32, 41

Hydraulic Brakes: Principles of Operation
U.S. Department of the Army, 1944. Hydraulic brake system; operation; hydraulic principle; advantage of liquid linkage and development of mechanical advantage. (*TF 9–2065; 24 minutes*)
..... 41

Hydraulic Dredging
U.S. Public Health Service, 1947. How to convert marshes into clear lakes with hydraulic dredge. Contrasts clear and vegetation and mud-choked lakes in same Florida locality. Before and after views, freeze frame drawings and diagrams. (*CDC–4–044; 5 minutes, color*)
..... 27

Hydrographic Surveying Operations of the Navy: Establishing Primary Survey Control Points
U.S. Department of the Navy, 1951. Instruments, methods and signal building required to establish primary geodetic control including astronomical position, azimuth, base line, triangulation and relevant operations. (*MN 6755–a; 20 minutes, color*)
..... 41

Hydrotherapy
U.S. Office of Education, 1945. (Nursing Series) How to administer sedative baths, wet-sheet packs, tonic showers, douches, and sprays; special types of therapeutic baths; rehabilitation hydrotherapy in the Hubbard bath and rehabilitation pool; physiological effects of hydrotherapy upon the body. Supplementary filmstrip, same title, also available. (*OE 410; 22 minutes*)
..... 32, 41

Hydrotherapy Procedures for Neuropsychiatric Patient
U.S. Veterans' Administration, 1949. How to give hydrotherapy treatment; handle patient to insure his comfort. For professional personnel and medical students. (*20 minutes*)
..... 31

Hymn of the Nations
U.S. Office of War Information, Overseas Branch, 1945. Toscanini conducts NBC Symphony Orchestra in the music of Verdi, with Westminster Choir and soloist Jan Peerce, in the Hymn of the Nations. (*28 minutes*)
..... 32, 41

I Went Back
U.S. Economic Cooperation Administration, 1950. Economic progress and recovery after two years of Marshall Aid reported by Leo Genn on a visit to Copenhagen, Vienna, Rome, and Athens, cities he saw as a R.A.F. officer during the war. (*16 minutes*)
..... 24

Ice Formation on Aircraft. Part 1: How and Where Ice Forms. Part 2: Review
U.S. Department of the Navy, 1943. (Aerology Series) Formation and effects of ice on aircraft; wing ice, propeller ice, carburetor ice, and ice in pi-tot tube as flying hazards. (*MN 119–a; 47 minutes*)
..... 7, 32

Ideas At Work
U.S. Economic Cooperation Administration, 1950. How efficiency experts working with labor and management have streamlined production in English mills; and time-and-labor-saving plans presented by workers to management have produced schemes, gadgets and machinery to cut costs and aid in Britain's recovery; includes examples of increased efficiency in pottery, welding, baking and textile trades. (*18 minutes*)
..... 24

Identifying and Precutting Cable
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 3) How cable is precut and put on reels; how to identify the VCLA cable used in merchant ships; how cable is measured in circular mils and with an American wire gage. Animation. Supplementary filmstrip, same title, also available. (*OE 112; 19 minutes*)
..... 32, 41

Idlewild: New York International Airport
U.S. Department of the Air Force, 1949. Air Force and Navy demonstrations at opening of International Airport, Idlewild, New York; formation flights of various types of airplanes; release of

glider from tow plane; helicopter rescue. (*SFP 241; 8 minutes*)
..... **11, 32, 41**

Immelman
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to execute Immelman; avoid errors; use to change from defensive to offensive status. (*MN 1325–d; 10 minutes*)
..... **7, 41**

Improving the Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Bill Downey's supervisor asks him for work-improvement suggestions; Bill talks the problem over with his father and sister, obtains their advice, and makes some worthwhile suggestions. (*OE 163; 9 minutes*)
..... **32, 41**

In Common Cause
U.S. Department of Agriculture, 1945. Accomplishments of soil conservation districts; their organization and operation; future program needed to increase crops and save soil. (*19 minutes*)
..... **4, 32, 41**

In the Beginning
U.S. Department of Agriculture, 1937. Prologue to life; time-lapse cinematography of ovulation, fertilization, and early development of mammalian (rabbit) egg. Short version "How Animal Life Begins" and long silent version "Ovulation, Fertilization, and Early Development of the Mammalian Egg", also available. (*17 minutes*)
..... **32, 41**

Inauguration of President Truman
U.S. Department of the Army, 1949. Documentary coverage of the Inauguration of President Truman and highlights of the Inaugural Address. (*M 7545; 18 minutes*)
..... **41**

Indian Cowboy
U.S. Bureau of Indian Affairs, 1949. How Indians participating in the government reimbursable cattle program turned drought-stricken cattle into a going herd. (*20 minutes, color*)
..... **34**

Indian Forests of the Southwest
U.S. Bureau of Indian Affairs, 1947. Explains forest management: scientific forestry and sustained yield; forest cover to protect grazing lands, prevent erosion and floods, and furnish refuge to game and fish. Filmed on White Mountain Apache and Navajo Reservations. (*18 minutes, color*)
..... **34**

Indian Gardens in Oklahoma
U.S. Bureau of Indian Affairs, 1941. How small garden plots improved by Indian Service irrigation system provide food for Oklahoma Indians. Primarily for U.S. Indian audience. (*10 minutes, color*)
..... **34**

Inductance. Parts 1 and 2
U.S. Department of the Navy, 1943. (Radio Technician Training Series) How a magnetic force reacts around a coil; nature of self-inductance; how to increase its value; how to increase inductance of a coil. Animation, straight photography. Supplementary filmstrip, same title, also available. (*MN 1540–b; 33 minutes*)
..... **7, 41**

Industrial Mobilization
U.S. Department of the Army, 1950. National defense planning phases necessary to produce implements of war and maintain stable civilian economy. (*AFSR 113; 16 minutes*)
..... **41**

Infant Care
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) Simple things to be done by parents during prenatal period and infancy to insure strong, sturdy children. Importance of diet in baby's early life. Animated cartoon. Portuguese version "Como Ciudar Da Crianca" and Spanish version "El

Cuidado Del Nino", also available. (*9 minutes, color*)
..... 32, 37

Infective Larvae of Wuchereria Bancrofti
U.S. Public Health Service, 1947. (Parasitology Series) Photomicrographs of activity of infective larvae of W. bancrofti, from mosquitoes infected with microfilariae (diurna) from Society Islands infection. A film short. (*CDC–4–059; 4 minutes, color*)
..... 27

Infeed Grinding a Shaft of Two Diameters
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 4) How to profile grind shafts by the infeed method; use cams in profiling the regulating wheel and grinding wheel; profile the wheels; set up the centerless grinding machine for the job; and rough- and finish-profile grind. Supplementary filmstrip, same title, also available. (*OE 88; 31 minutes*)
..... 32, 41

Infeed Grinding Shouldered Work
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 3) Use of an automatic ejector; how to tilt the regulating wheel; adjust the end-stop; position the work for grinding; correct work ground out of round; and check work with V block, indicator, and micrometer. Supplementary filmstrip, same title, also available. (*OE 87; 23 minutes*)
..... 32, 41

Injection Molding. Part 1: Setting Up the Press and Molding a Part
U.S. Office of Education, 1945. (Plastics Series No. 7) What happens in the plunger cylinder, heating cylinder, and mold during injection molding; how to set up an injection molding press for a specified job; maintain the operating cycle and prevent damage to the mold and the press. Animation. Supplementary filmstrip, same title, also available. (*OE 472; 16 minutes*)
..... 32, 41

Injection Molding. Part 2: Cleaning and Servicing the Press
U.S. Office of Education, 1945. (Plastics Series No. 8) How to disassemble the heating cylinder; clean the cylinder, hopper, and feeder mechanism; give the entire press a routine cleaning; and prepare scrap material for re-use. Animation. Supplementary filmstrip, same title, also available. (*OE 473; 12 minutes*)
..... 32, 41

Injection Nozzle
U.S. Department of the Navy, 1944. Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P. Benchwork) How to test and check injection pressure; disassemble, clean and reassemble injection nozzle. (*MN 3691–h; 10 minutes*)
..... 41

Injector Block Reconditioning and Reassembly
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Fuel System No. 2) How to clean parts, lap valve seats, remove lapping compound, reassemble all valve parts in injector block, and reassemble auxiliary parts in injector block. (*MN 2364–n; 17 minutes*)
..... 41

Injector Block Removal and Disassembly
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Fuel System No. 1) How to put throttle in closed position: remove inspection window, remove injector block, and complete disassembly of injector block and valve parts at work bench. (*MN 2364–m; 14 minutes*)
..... 41

Injector Block Replacement and Timing
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Fuel System No. 3) How

to replace injector block and connecting lines; set injector lifts; check every time injector block is removed. (*MN 2364–o; 13 minutes*)
..... **41**

The Innerbottom: Setting Up Floors and Longitudinals
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 3) How to fair the keel; set and fit transverse floors; set, fit, and weld longitudinal girders. Supplementary filmstrip, same title, also available. (*OE 26; 18 minutes*)
..... **32, 41**

Innerbottom Sections: Subassembly of a Closed Floor; Subassembly of an Open Floor
U.S. Office Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 2) How the keel, longitudinal girders, transverse side stiffeners, and tank tops form the innerbottom of a ship. How to lay out and install a closed floor and an open floor section. Supplementary filmstrip, same title, also available. (*OE 25; 18 minutes*)
..... **32, 41**

Insect Enemies
U.S. Institute of Inter-American Affairs, 1947. How insect control increases size of crop and practical measures of control any farmer can adopt. Portuguese version "Como Exterminar Os Insectos" and Spanish version "Exterminación de las Plagas" also available. (*7 minutes, color*)
..... **32, 37**

Insectos que Transmiten Doencas
U.S. Institute of Inter-American Affairs, 1945. (Saude para as Americas) Portuguese version of "Insects as Carriers of Disease". Spanish version "Insectos que Transmiten Enfermedades" also available. (*9 minutes, color*)
..... **37**

Insectos que Transmiten Enfermedades
U.S. Institute of Inter-American Affairs, 1945. (Salud para las Americas) Spanish version of "Insects as Carriers of Disease." Portuguese version "Insectos que Transmitem Doencas" also available. (*9 minutes, color*)
..... **37**

Insects as Carriers of Disease
U.S. Institute of Inter-American Affairs, 1945. (Health for the Americas Series) How the fly, mosquito, and louse carry dysentery, malaria, and typhus and ways to exterminate these disease spreading insects. Cartoon. Portuguese version "Insectos que Transmitem Doencas" and Spanish version "Insectos que Transmiten Enfermedades" also available. (*9 minutes, color*)
..... **32, 37**

Inside Passage
U.S. Department of the Army, 1948. Economic and recreational value of the Atlantic Intracoastal Waterway south from Norfolk, Virginia, to Key West, Florida. (*30 minutes, color*)
..... **13**

Inside the Cell
U.S. Department of the Army, 1949. (Professional Medical Films Series) Place of the cell in the integrated organization of the individual; the chemical substance within the cell, its function and behavior. (*PMF 5077; 45 minutes*)
..... **41**

Insomnia
U.S. Department of the Navy, 1945. (Combat Fatigue Series) How insomnia results from worries, often minor, and from being "wound up too tight"; how to relax all parts of the body and coax oneself to go to sleep. (*MN 3428–e; 19 minutes*)
..... **41**

Inspecting and Adjusting Hydraulic Brakes
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to inspect the hydraulic brake system; bleed the hydraulic brakes; add fluid to the hydraulic system reservoir; and how hydraulic brakes operate. Supple-

mentary filmstrip, same title, also available. (*OE 255; 13 minutes*)
..... 32, 41

Inspecting and Reconditioning Piston Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to clean, inspect, and recondition the piston assembly; measure clearances; and install new piston rings. Supplementary filmstrip, same title, also available. (*OE 263; 22 minutes*)
..... 32, 41

Inspecting and Reconditioning Valve Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to disassemble the valve mechanism; clean and recondition the parts; measure clearances; reassemble the valve mechanism; and reinstall the pistons and cylinders. Supplementary filmstrip, same title, also available. (*OE 264; 25 minutes*)
..... 32, 41

Inspection and Preparatory Steps
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) Preliminary inspections; operation of jacking gear; draining of cooling water; inspection of rings and pistons. (*MN 3691–a; 7 minutes*)
..... 41

Inspection Method. Part 1
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to inspect; use and check gauges; and use Newton's rings as inspection method. (*MN 2449–m; 28 minutes*)
..... 41

Inspection Method. Part 2
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to inspect prisms and spherical lens; use spectrometer; observe slight deviations. Diagrams. (*MN 2449–n; 19 minutes*)
..... 41

Inspection of Alighting Gear
U.S. Department of the Air Force, 1942. (Aircraft Alighting Gear Series) Inspection routine applicable to any type tricycle landing gear. Demonstrated on P–38. (*TF 1–515; 10 minutes*)
..... 7

Inspection of Minor Assemblies
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 2) How to inspect a minor assembly in detail; read rivet specifications; and inspect rivets. Supplementary filmstrip, same title, also available. (*OE 146; 16 minutes*)
..... 7, 32, 41

Inspection of Pistons
U.S. Department of the Navy, 1943. (Cooper Bessemer Diesel Engine Maintenance Series. Bench Work No. 2) How to inspect piston covers; piston head; measure ring clearance; remove and inspect rings and ring grooves; measure piston pin and bearings; and record measurements in machinery history book. (*MN 2364–f; 10 minutes*)
..... 41

Inspection of Plumbing and Piping
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 3) How to inspect plumbing and piping in detail; verify the materials used; inspect installation of the part in the plane; and identify the different plumbing lines. Supplementary filmstrip, same title, also available. (*OE 147; 17 minutes*)
..... 32, 41

Inspection of Sheet Metal Parts
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 1) How to plan an inspection routine; inspect a sheet metal part in detail; make a visual inspection; and make spot checks. Supplementary filmstrip, same title, also available. (*OE 145; 20 minutes*)
..... 7, 32, 41

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Inspection of Threads
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 4) How to identify the different parts of an American National Standard Thread; inspect external threads with a roll snap gage; adjust the roll snap gage; and inspect internal threads with a plug gage. Supplementary filmstrip, same title, also available. (*OE 148; 22 minutes*)
..... **32, 41**

Installation, Maintenance, and Inspection
U.S. Department of the Navy, 1945. (Self-sealing Fuel Cells Series) Preflight, fuel strainer, capacity, and visual interior inspections; how cell is removed from plane; inspected; and new one installed after specified period of use. Animation shows relationship of each layer of cell construction. (*MN 4318–c; 11 minutes*)
..... **41**

Installation of Cylinder Head
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Benchwork) How to recondition cylinder head, remove valve springs and valves; reface and check valve seats; check height of valve stems; clean and inspect parts. (*MN 3708–f; 25 minutes*)
..... **41**

Installation of Cylinder Head
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Reassembly) How to position cylinder head, install injector linkages, fuel lines, rocker arm assemblies, test valves, and piston cooling oil lines (*MN 3708–e; 24 minutes*)
..... **41**

Installation of Liner and Piston
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Reassembly) How to install liners, blade rod piston assembly, fork rod piston assembly, pistons; and secure pistons with bearing cap. (*MN 3708–d; 14 minutes*)
..... **41**

Installing and Aligning Tail Surfaces
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) How to inspect and remove damaged tail surfaces; prepare new parts for installation; install new stabilizers, elevators, and rudder. Supplementary filmstrip, same title, also available. (*OE 259; 19 minutes*)
..... **32, 41**

Installing and Connecting Telltale Panel
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 7) How to lay out telltale unit; remove insulation from cable; reinsulate conductors and cable; connect conductors to the multiconnection box. Animation. Supplementary filmstrip, same title, also available. (*OE 116; 15 minutes*)
..... **32, 41**

Installing Conduit
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to bend electrical metallic tubing; install tubing runs; bend rigid conduit; install rigid conduit runs; and use flexible conduit. Animation. Supplementary filmstrip, same title, also available. (*OE 381; 25 minutes*)
..... **32, 41**

Installing Landing Gear
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) How to remove damaged landing gear; replace old bolts, nuts, and cotters; install an aircraft bolt properly; assemble and install a new landing gear; and check alignment and track of wheels. Supplementary filmstrip, same title, also available. (*OE 257; 19 minutes*)
..... **32, 41**

Installing Surface Metal Raceway
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to install a molding raceway run to ceiling outlet; from ceiling outlet to wall switch; from ceiling outlet to wall fan; and to

floor outlet. Animation. Supplementary filmstrip, same title, also available. (*OE 380; 22 minutes*)
..... 32, 41

Installing Valves in Engine Room Systems. Part 1
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Pipefitting No. 8) Identification of principal units in engine-room system; function of valves in controlling cycle of steam; design and functions of gate valve, globe valve, and check valve. Supplementary filmstrip, same title, also available. (*OE 123; 12 minutes*)
..... 32, 41

Installing Valves in Engine Room Systems. Part 2
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Pipefitting No. 9) Installation of the globe valve in main steam line; gate, angle, and swing-check valves; flanged valves; valves with threaded fittings where clearance is limited. Supplementary filmstrip, same title, also available. (*OE 124; 16 minutes*)
..... 32, 41

Installing Valves and Strainer on Sea Chest
U.S. Office of Education, 1944. (Shipbuilding Skills. Marine Machinery Installation No. 5) How studs are driven and checked for accuracy; valves installed on sea chests; strainer prepared for and installed on sea chest. Supplementary filmstrip, same title, also available. (*OE 99; 13 minutes*)
..... 32, 41

Installing Vitreous Fixtures
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 6) How to lay out, drill, and tap the seating; measure and cut brass studs; make watertight installations; assemble and connect the flushometer. Supplementary filmstrip, same title, also available. (*OE 121; 19 minutes*)
..... 32, 41

Instructing the Blind Worker on the Job
U.S. Office of Education with the cooperation of U.S. Office of Vocational Rehabilitation, 1944. (Problems in Supervision Series) How a supervisor trains Fred Bates, blind worker, to operate a drill press. (*OE 166; 17 minutes*)
..... 32, 41

Instructing the Disabled Worker on the Job
U.S. Office of Education, 1946. (Problems in Supervision Series) Dramatized instances of poor and good instruction of disabled workers, and how in the latter case, a one-armed worker learns successfully to operate a drill press. (*OE 400; 14 minutes*)
..... 32, 41

Instructing the Worker on the Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Dramatization of how *not* to instruct a new worker and the results of poor on-the-job instruction; in contrast, how such instruction should be done. (*OE 155; 14 minutes*)
..... 32, 41

Instrument Flight
U.S. Department of the Air Force, 1943. Importance of thorough knowledge of various flight instruments and their basic principles demonstrated in practical application of instrument flight in which weather conditions compel squadron from North African field to conduct entire mission against enemy on instruments alone. (*TF 1–3318; 18 minutes*)
..... 7

Integrated Landing Aids. Part 1
U.S. Department of the Navy, 1949. From pilot's point of view, appearance of instrument panel of aircraft while making approach under adverse weather conditions, approach and runway lighting system, and fog dispersal equipment. (*MN 6613–a; 23 minutes, color*)
..... 41

Integrated Landing Aids. Part 2
U.S. Department of the Navy, 1949. Continuation of Part 1. (*MN 6613–b; 26 minutes, color*)

Interior and Exterior Trim
U.S. Department of the Navy, 1950. (Building Techniques Series) Training film; title self-explanatory. (*MN 6719–e; 12 minutes*)
..... **32, 41**

International House
U.S. Department of the Army, 1950. How foreign students, working and living together and sharing cultural exchanges and intellectual debate at New York's International House, prove that brotherhood is the only base for spreading goodwill among nations. (*CAD 90; 8 minutes*)
..... **32, 41**

International Ice Patrol
U.S. Department of State, 1949. How U.S. Coast Guard ice patrol operating under international agreement eliminates iceberg menace in North Atlantic shipping lanes; how sea and air patrol locates iceberg; use of radar; follow-up warnings to ships; Cutter Mendota's search for iceberg no. 39. Released through U.S. Office of Education for educational use in the United States. (*22 minutes*)
..... **32, 41**

Interviewing
U.S. Bureau of Old Age and Survivors Insurance, 1950. How to interview; make individuals feel at ease; assist their memories; correct erroneous impressions; handle confused or irate claimants, and other interviewing situations. (*20 minutes*)
..... **25**

Introducing the New Worker to His Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Dramatization of how *not* to orient a new employee and get him started on his job; then by contrast, what should have been done. (*OE 154; 16 minutes*)
..... **32, 41**

Introduction
U.S. Department of the Navy, 1949. (U.S. Naval Arctic Operations Series. Petroleum Reserve No. 4) Series title self-explanatory. (*MN 5377–a; 22 minutes, color*)
..... **41**

Introduction. Parts 1 and 2
U.S. Department of the Navy, 1942. (Rules of the Nautical Road Series) How misinterpretation of ship's whistle caused Halifax incident; international rules; importance of taking bearings; definition of nautical terms, proper lookout, good seamanship, inevitable accident and marine collision law. Animation throughout. (*MN 202–b; 22 minutes*)
..... **41**

Introduction and Location of Celestial Points
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Principles of location of points on celestial sphere; uses of celestial navigation; relationship between earth and celestial sphere; definitions of zenith, nadir, sidereal hour angle, local hour angle, and bubble horizon. Animation diagrams. (*TF 1–290; 18 minutes*)
..... **7, 32, 41**

Introduction to Flying Technique
U.S. Department of the Air Force, 1943. To give flying student true picture of primary flying school training and importance of fundamental flying techniques. Recent graduate of pilot course debunks silly rumors and beliefs that crop up with each new class of student pilots. (*TF 1–3313; 10 minutes*)
..... **7**

Introduction to Haiti
U.S. Coordinator of Inter-American Affairs, 1942. Tourist view of Haiti: history; traditions; daily life of people; Port au Prince, Cap Haition; Henri Christophe's palace. (*10 minutes, color*)
..... **32, 41**

Introduction to Optics
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1945. (Optical Craftsmanship Series) Principles of light waves and rays; light refraction and reflection; and image formation in relation to concave and

convex lenses as applied to optical instruments. Animation. (*MN 2449–a; 17 minutes*)
..... **41**

Introduction to Preventive Maintenance
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 1) Importance of preventive maintenance in truck operation; typical checks of the clutch pedal, battery, and voltage regulator. Supplementary filmstrip, same title, also available. (*OE 461; 12 minutes*)
..... **32, 41**

Introduction to Radar
U.S. Department of the Navy, 1944. Basic theory, nomenclature, and different kinds of radar: detection, search, aircraft warning, homing, navigational aid; P.P.I.; how to set up and solve problem by radar. Elementary. Revision of "Finding the Enemy" and "Radar: Weapon of Attack." (*MN 3635; 26 minutes*)
..... **7**

An Introduction to Vectors: Coplanar Concurrent Forces
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Scalar and vector quantities; methods of vector composition and resolution; how vectors may be employed to solve engineering problems. Supplementary filmstrip, same title, also available. (*OE 361; 22 minutes*)
..... **32, 41**

Invasion of Crete by the German Army
U.S. Department of the Army, 1942. German film made during the actual invasion; shows strafing, precision bombing, parachuting, and finally seaborne replacements pouring in from landing barges after which control of the island is gained. (*FB 16; 11 minutes*)
..... **41**

Inverted Spins
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to execute inverted spins and recovery; errors; precautions. (*MN 1325–f; 10 minutes*)
..... **7, 41**

The Invisible Link
U.S. Economic Cooperation Administration, 1950. How electric power, developed with Marshall Plan help, increased Austria's industrialization; helped solve its unemployment problem; and electrified its farms. (*13 minutes*)
..... **24**

Invisible Rampart
U.S. Department of the Army, 1950. Commemorates 50th anniversary of Alaska Communication System, covering Aleutians to Arctic Circle. (*AFSR 119 or M 7697; 15 minutes*)
..... **12, 41**

Irrigated Pastures
U.S. Bureau of Reclamation, 1943. How to irrigate pasture lands to produce forage crops. (*25 minutes, color*)
..... **18**

Irrigating Field Crops
U.S. Department of Agriculture, 1932. Irrigating methods and equipment; canals; dams; field ditching; flooding; furrow method; corrugation; subirrigation, border method; check system; overhead or sprinkler system. (*21 minutes, silent*)
..... **32, 41**

Irrigation: A Brief Outline
U.S. Department of Agriculture, 1935. How topographical conditions determine irrigation method; types of irrigation; systems of measuring water; preparation of land; irrigation methods for crops and orchards. (*11 minutes, silent*)
..... **32, 41**

Irrigation Farming
U.S. Department of Agriculture, 1945. Solution of irrigation problems in Southwest; need for well-planned layout and water control system; methods of planning, installing, and revising farm irrigation systems. (*17 minutes*)
..... **4, 32, 41**

Irrigue a Terra
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Water on

the Land." Spanish version "Regando La Tierra" also available. (*9 minutes, color*)
..... **37**

The Island of Faith
U.S. Economic Cooperation Administration, 1950. How the people of Walcheren Island have reclaimed their island from the sea after the war's destruction and, with the help of ERP, are building a new life. (*20 minutes*)
..... **24**

Isolation Technique
U.S. Department of the Army, 1948. How infection may be spread by medical personnel when caring for isolation cases; how to set up an isolation unit, put on and remove an isolation gown. (*TF 8–1520; 18 minutes*)
..... **41**

Isolation Technique
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How infection spreads; how to set up isolation unit; put on isolation gown; scrub hands; care for isolated patient; terminal disinfection. (*MN 1511–x; 20 minutes*)
..... **41**

It's No Picnic
U.S. Department of Agriculture, 1948. Story of a family picnic and of Father's failure to take one precaution—that of stamping out his pipe ashes. Volunteer fire fighters bring the fire under control and Father, apprehended by the fire warden, is fined for his carelessness. Produced in cooperation with State Foresters of the Northeastern States. (*26 minutes, color, also b&w*)
..... **3, 32, 41**

It's the Maine Sardine
U.S. Fish and Wildlife Service in cooperation with the Maine Department of Sea and Shore Fisheries and Maine Sardine Packers Association, 1949. (Commercial Fisheries Series No. 5) Documentary of Maine sardine fishery; methods of catching and processing sardines. First Prize, Public Relations Category, 10th Annual Exhibition of Cinematographic Art, Venice, Italy. (*18 minutes, color*)
..... **20, 32**

It's Up to You
U.S. Public Health Service, 1945. (Dengue and Yellow Fever Control Series) Health department and other agencies in city confronted with dengue and yellow fever epidemic plan and execute antimosquito campaign against A. aegypti. Drawings and photomicrography. Spanish version "Le Toca a Ud" also available. (*CDC 4–016; 17 minutes, color*)
..... **27, 41**

It's Your America
U.S. Department of the Army, 1948. (Educational Film Series No. 5) Emphasizes the returning soldier's responsibilities in preparing himself for the job of running his country in such a way that the things he fought for will be achieved. Revision (*EF 5; 35 minutes*)
..... **41**

It's Your Land
U.S. Department of Agriculture, 1947. Devil-in-phantom gloats while food disappears from farmer's dinner table as erosion carries away topsoil, but Satan is routed by local conservation committee; community and theatrical use. (*5 minutes*)
..... **32, 41**

It's Your War, Too
U.S. Department of the Army, 1944. Work done by members of the Women's Army Corps during World War II. (*M 958; 9 minutes*)
..... **41**

The Japanese Army and Navy
U.S. Department of the Army, 1945. Nature of Japanese armed forces: physical education, indoctrination, morals, military ideals and education, organization, equipment, tactics, and supporting role of Navy. (*M 1059; 35 minutes*)
..... **41**

Japanese Diet Members Observe U.S. Government in Action
U.S. Department of the Army, 1950. How Japanese Diet members observed U.S. government in tour of Washington and studied in detail the work of the Department of Agriculture. (*CAD; 19 minutes*)
..... **41**

Japanese Diet Visits State Legislature
U.S. Department of the Army, 1950. How Japanese Diet members witnessed democratic legislation in action. (*CAD; 18 minutes*)
..... **41**

Japanese Relocation
U.S. Office of War Information, Domestic Branch, 1943. How 100,000 Japanese were moved from the Pacific Coast to inland settlements in Arizona, Colorado, and Wyoming. (*10 minutes*)
..... **32, 41**

Japanese Women Leaders Visit the U.S.
U.S. Department of the Army, 1950. Japanese women visitors in Columbus, Ohio, discover how American farmers voluntarily enlist aid of Agricultural Extension Service to raise living standards. (*CAD; 10 minutes*)
..... **41**

The Jet Assisted Take-Off of Carrier Aircraft
U.S. Department of the Navy, 1943. How jets are used in the take-off of planes from a Navy carrier. Also entitled "Jet Propulsion." (*MN 2403; 12 minutes*)
..... **41**

Joining Solid Conductors
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to make a Western Union, pigtail, plain tap, "wrapped tap" or Britannia, loop tap, and fixture joints; use a blow-torch; flux and solder joints; insulate joints. Animation. Supplementary filmstrip, same title, also available. (*OE 369; 22 minutes*)
..... **32, 41**

Jointing an Edge for Gluing; Installing Knives
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 4) How to determine when knives are dull; remove dull knives; install sharp knives on the cutter head and adjust them for proper cutting; straighten crooked stock; join edges for gluing. Supplementary filmstrip, same title, also available. (*OE 305; 21 minutes*)
..... **32, 41**

Jointing Edges and Ends 90 Degrees to Face
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 1) How to set the fence and infeed table to proper height; feed with the grain; joint end grain so as to prevent tearing. Supplementary filmstrip, same title, also available. (*OE 302; 17 minutes*)
..... **32, 41**

Journey Back
U.S. Veterans' Administration, 1949. How Edward Lundquist, hemiplegic, is rehabilitated; how physical therapist, occupational therapist, recreational therapist, speech therapist, social worker, and others aid in his recovery. (*20 minutes*)
..... **31, 32, 41**

Journey Into Medicine
U.S. Department of State, 1947. One doctor's "journey into medicine": studies in medical school, graduation, internship, further study in pediatrics, decision to specialize in public health; importance of public health in preventing and controlling epidemics. Photographed at Columbia Presbyterian Medical Center, New York Hospital, and Johns Hopkins. Released through U.S. Office of Education and U.S. Public Health Service for educational use in the United States. (*39 minutes*)
..... **32, 41**

Jumping and Cross Country Riding
U.S. Department of the Army, 1942. (Horsemanship Series No. 5) Bold riding

as an essential to successful cavalry operations; practicing balance, the chute ditches, big jumps, and cross-country equitations. (*TF 2–604; 32 minutes*)
..... **41**

Jungle Quest for the Great Stone Heads
U.S. Coordinator of Inter-American Affairs with the cooperation of the National Geographic Society, 1942. Archeological expedition made by the National Geographic Society and the Smithsonian Institution in the State of Vera Cruz; excavation of sculpture of Almecs and culture from which Aztecs descended. (*26 minutes, color*)
..... **32, 41**

The Jungle That Was (Le Niger)
U.S. Economic Cooperation Administration, 1950. Background and history of Niger project in French West Africa; work under way in land reclamation, irrigation and creation of new rice-growing industry; documentary of changes wrought by modern technology on established cultures. Entitled also "The Niger." (*20 minutes*)
..... **24**

Junior Achievement
U.S. Department of the Army, 1950. Plan sponsored by local business-men to assist and advise high school students in small manufacturing or business projects. (*CAD 76; 11 minutes*)
..... **41**

Junior College for Technical Trades
U.S. Department of State, 1950. Origin, purpose, administration, vocational courses, and relationship to industrial needs of community of Los Angeles Trade and Technical College (Frank Wiggins Trade School). Released through U.S. Office of Education for educational use in the United States. (*22 minutes*)
..... **32, 41**

Keep 'Em Out
U.S. Public Health Service, 1942. How rats spoil food; destroy buildings; spread disease; rat control by poison, trapping, ratproof construction of buildings. (*10 minutes*)
..... **26**

Keep 'Em Rolling
U.S. Office of War Information, Domestic Branch, 1942. Sung against background of scenes in war production plants. (*3 minutes*)
..... **32, 41**

Keep It Flying. Part 1
U.S. Department of the Navy, 1946. (Primary Flight Training Series) Relation of angle of attack to lift and stalling; what apparent weight involves; how to recognize its increase; feel of plane in stalling attitudes. (*MN 3474–l; 10 minutes*)
..... **7**

Keep It Flying. Part 2
U.S. Department of the Navy, 1946. (Primary Flight Training Series) Stalls, spins and recoveries; feel of the break in a stall, shudder before she breaks away, the "hy-ya Mable" stall and its effective results; how to use falling leaf in landing; spin recovery technique; analyses of progressive stalls and spins. (*MN 3474–m; 15 minutes*)
..... **7**

Keeping Your Car Fit
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 3) Why a weekly checkup is necessary; why a car should be lubricated regularly; when the oil filter element should be replaced; and why the cooling system should be inspected periodically. Supplementary filmstrip, same title, also available. (*OE 488; 12 minutes*)
..... **32, 41**

Kentucky Dam
U.S. Tennessee Valley Authority, 1948. How TVA's longest dam was constructed across the main Tennessee River at a strategic location only 22 miles from where the Tennessee joins the Ohio River; how it is a major flood control project of the TVA system. Film record

of engineering process on structures photographed during construction. (*21 minutes, color*)
..... **30, 40**

Kids Must Eat
U.S. Department of Agriculture, 1945. Unrehearsed Quiz Kids session correlated with story of U.S. Department of Agriculture's community school lunch program to utilize surplus foods and promote better nutrition. (*15 minutes*)
..... **32, 41**

Kill the Louse
U.S. Institute of Inter-American Affairs, 1947. How a community can get rid of typhus by killing the louse which spreads the deadly disease. Why clean bodies and clothes are important. Portuguese version "Guerra Ao Piolho" and Spanish version "El Tifo" also available. (*8 minutes, color*)
..... **32, 37**

Killing Weeds with 2, 4-D
U.S. Department of Agriculture, 1949. Use of chemical weed killer, 2, 4–D; mixtures and spraying techniques; common weeds before and after spraying. (*17 minutes, color*)
..... **32, 41**

King Chinook
U.S. Fish and Wildlife Service, 1945. Life history and migrations of Columbia River salmon; sport and commercial fishing; fishing by Indians at Celilo Falls; how dams impede or stop migration; work of U.S. Fish and Wildlife Service in rerouting migrations to perpetuate the salmon packing industry. (*45 minutes, color, silent*)
..... **20**

King of the Soft Woods
U.S. Department of Agriculture, 1949. (White Pine Blister Rust Series) Value of Oregon and California sugar pine; camp life; logging; recreation; blister rust disease; methods of eradicating alternate host plants; and utilization of sugar pine. (*15 minutes, color; also b&w*)
..... **1, 32, 41**

Know For Sure
U.S. Public Health Service, 1941. Physician's experiences with syphilis: sources of infection, early symptoms, diagnosis, and clinical treatment, prevention, quacks. For male audiences (*22 minutes*)
..... **26**

Know For Sure
U.S. Public Health Service, 1942. Importance of early treatment in syphilis; case finding and follow-up treatment. Revision. Section on prophylaxis and male sex organs omitted. For mixed audiences and high school students. (*15 minutes*)
..... **26**

Know the Eggs You Buy
U.S. Department of Agriculture, 1949. Egg grading plant; candling and cartoning of eggs, government grade labeling and relationship of grades and uses of eggs. (*5 minutes*)
..... **32, 41**

Know Your Air Force Better
U.S. Department of the Air Force, 1949. How Air Force Day activities at an Air Force Base promote better public understanding of the Air Force; demonstrations and various types of airplanes to be seen at typical installations. (*SFP 242; 15 minutes*)
..... **11, 32, 41**

Know Your Ally—Britain
U.S. Department of the Army, 1944. Explains to the American soldier the nature of the British and their part in the war. (*OF 16; 43 minutes*)
..... **41**

Know Your Car
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 1) Construction of a car chassis; how engine functions; operations of clutch, transmission, rear axle, brakes, electrical and cooling systems. Supplementary filmstrip, same title, also available. (*OE 486; 15 minutes*)
..... **32, 41**

Know Your Land
U.S. Department of Agriculture, 1945. Principle of land classification: characteristics, use, and treatment of eight classes of land. Filmstrip, same title, also available. (*13 minutes, color*)
..... **4, 32, 41**

Know Your Typewriter
U.S. Federal Security Agency, 1941. Tricks and short cuts in caring for and operating a typewriter; how to cut maintenance costs and assure greater efficiency. (*30 minutes, color, also b&w*)
..... **32, 36**

Korea Today
U.S. Department of the Army, 1948. Present-day (1948) occupation in Korea with special emphasis on rehabilitation progress made by the Americans. (*AFSR 94; 19 minutes*)
..... **41**

Korea's New Army; Operation Vittles (Berlin Airlift)
U.S. Department of the Army, 1949. How Korean soldiers are being trained in modern warfare: weapons, communications, machines, aerial observation and nursing. How U.S. transport planes took tons of food, fuel, and supplies to blockaded Berlin. Includes "Operation Vittles" released by U.S. Department of the Air Force. (*AFSR 103; 21 minutes*)
..... **41**

La Paz
U.S. Coordinator of Inter-American Affairs, 1943. A film journey through La Paz, Bolivia's capital and the "highest big city in the world." Contrasts the old and the new in Latin America. (*17 minutes*)
..... **32, 41**

Laboratory Diagnosis of Diphtheria. Part 1: Microscopic Study and Isolation of C. Diphtheriae
U.S. Public Health Service, 1950. Procedures for isolating pure cultures of C. diphtheriae from throat and nasal swabs of a patient with suspected diphtheria. Photomicrographs of organisms and live action photography. (*CDC–4–088; 13 minutes*)
..... **27, 41**

Laboratory Diagnosis of Diphtheria. Part 2: Determination of Types of C. Diphtheriae
U.S. Public Health Service, 1950. Procedures to determine cultural types of C. diphtheriae, hemolysin and fermentation tests and observation of colony forms. Bacteriology Laboratory film. (*CDC–4–088.2; 11 minutes*)
..... **27, 41**

Laboratory Diagnosis of Diphtheria. Part 3: Animal Inoculation
U.S. Public Health Service, 1950. Laboratory procedures for preparing pure broth cultures of C. diphtheriae for injection into rabbits, guinea pigs, and chicks to determine virulence. Live action photography. (*CDC–4–008.1; 13 minutes*)
..... **27, 41**

Laboratory Diagnosis of Diphtheria. Part 4: the In Vitro Test for Virulence of C. Diphtheriae
U.S. Public Health Service, 1950. Principles and procedures of In Vitro test for virulence of C. diphtheriae with off stage narration and live action photography showing techniques from operator's viewpoint. (*CDC–4–106; 12 minutes*)
..... **27, 41**

The Laboratory Diagnosis of Influenza
U.S. Public Health Service, 1950. Intro amniotic inoculation of chick embryos with virus recovered from nose and throat washings; identification of hemaglutination inhibition tests with specific immune area; antibody response. For laboratory technicians. (*CDC–4–101; 15 minutes*)
..... **27, 41**

Laboratory Diagnosis of Rabies
U.S. Public Health Service, 1950. Techniques of diagnosis essential to doctor prior to human treatment: removal of brain from body; smear; photomicro-

graphic and mouse inoculation tests. (*CDC–4–111; 5 minutes*)
..... **27, 41**

Laboratory Diagnosis of Tuberculosis
U.S. Public Health Service, 1947. Exposition of diagnosis of T.B. by means of cultivation of tubercle bacilli on modified Lowenstein's medium. For laboratory workers and T.B. specialists. (*20 minutes*)
..... **26**

The Laboratory Diagnosis of Tuberculosis. Part 1: Preparation of a Culture Medium
U.S. Public Health Service, 1949. (The Laboratory Diagnosis of Tuberculosis Series) Necessity for bacteriologic diagnosis of T.B.; advantages of modified Lowenstein medium; ingredients, preparation, tubing, inspissating, testing, and storing of medium; and characteristics of colonies on medium. (*CDC–4–089.1; 14 minutes*)
..... **27, 41**

The Laboratory Diagnosis of Tuberculosis. Part 2: Preparation of Sputum Specimens
U.S. Public Health Service, 1949. (The Laboratory Diagnosis of Tuberculosis Series) Effective and reliable technique of sputum preparation used in laboratory diagnosis of T.B. to simplify T.B. diagnosis methods and supplement mass X-ray programs. (*CDC–4–089.2; 16 minutes*)
..... **27, 41**

The Laboratory Diagnosis of Tuberculosis. Part 4: Typing of Tubercle Bacilli by Animal Inoculation
U.S. Public Health Service, 1950. (The Laboratory Diagnosis of Tuberculosis Series) Animal inoculation technique of typing T.B. with cultures standardized and diluted to insure validity of results of such typing. Animation. (*CDC–4–089.4; 14 minutes*)
..... **27, 41**

Laboratory Procedures
U.S. Department of the Navy, 1945. (Dentistry Series. Anterior Acrylic Bridgework No. 2) Close-up photography shows in detail the construction of an acrylic bridge. Direct technique is clearly shown. Special film for dental personnel. (*MN 4352–b; 19 minutes, color*)
..... **41**

Lake Carrier
U.S. Office of War Information, Domestic Branch, 1942. How iron ore is transported from the Mesabi ranges of Minnesota across the Great Lakes to the steel mills of Gary, Pittsburgh, and Youngstown. (*9 minutes*)
..... **32, 41**

The Land Must Eat
U.S. Institute of Inter-American Affairs, 1947. Why increased use of barnyard manure, compost, green manure crops and crop rotation to replenish depleted soil is necessary for good crops. Cross section of well-fertilized and neglected soils with seeds shows difference in plant growth. Portuguese version "Como Cuidar Da Terra" and Spanish version "Hay Que Alimentar La Tierra" also available. (*9 minutes, color*)
..... **32, 37**

Landing Accidents
U.S. Department of the Navy, 1947. (Primary Flight Training Series) Proper landing technique: go over check-off list; be alert always; make a good approach; keep proper interval and sharp outlook for danger; make second turn if necessary; keep air speed adequate; remember check-off list. Live photography. Animation. (*MN 4353–f; 6 minutes*)
..... **7**

Landings
U.S. Department of the Air Force, 1944. Explains traffic pattern and landing: the five factors such as wind, drift, key point, etc., to be considered; common errors; cross-wind landings; power landings; landings with engine throttled back; and landing a BT–13. Flight instructor lectures with blackboard, still photos, models and actual landings. (*TF 1–3319; 28 minutes*)
..... **7**

Landings
U.S. Department of the Navy, 1946. (Primary Flight Training Series) How to land; gain landing altitude through gliding approach and stall; maintain heading; correct for excess landing speed; attitude of plane and bird in landing compared. (*MN 3474–i; 13 minutes*)
..... **7**

The Lathe
U.S. Office of Education, 1944. (Machine Shop Work Series. Basic Machines) Functions, characteristics, and basic operations of the engine lathe. Supplementary filmstrip, same title, also available. (*OE 68; 15 minutes*)
..... **32, 41**

Latitude by Polaris
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Relationship between latitude and elevated pole; position and diurnal path of Polaris; reduction of altitude of elevated pole. (*TF 1–545; 10 minutes*)
..... **7, 32, 41**

Launching
U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How to launch a seaplane from concrete ramp. (*MN 1338–c; 18 minutes*)
..... **41**

Laying Out and Forming Plywood
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 3) How to lay out plywood using blueprints and templates; form plywood in a press; reinforce plywood; and apply glue and varnish. Supplementary filmstrip, same title, also available. (*OE 285; 21 minutes*)
..... **32, 41**

Laying Out and Installing Compartment Fixtures
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 5) How to locate installations on a plan-view blueprint; lay out ceiling fixtures and studs; lay out and burn a hole for the passage of cable; install ceiling fixtures. Animation. Supplementary filmstrip, same title, also available. (*OE 114; 12 minutes*)
..... **32, 41**

Laying Out and Installing Hangers
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 5) How to measure and cut hanger legs to length; install stool, angle iron bracket, strap, rod, and saddle hangers. Supplementary filmstrip, same title, also available. (*OE 120; 19 minutes*)
..... **32, 41**

Laying Out and Installing Kickpipes and Stuffing Tubes
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 1) How to distinguish the three types of kickpipes; lay out penetration areas; install kickpipe areas; lay out and install single kickpipes and stuffing tube areas. Animation. Supplementary filmstrip, same title, also available. (*OE 110; 16 minutes*)
..... **32, 41**

Laying Out and Installing Main Wireway
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 2) How to lay out and install raceways and wireways; calculate the width of a hanger to be used; determine the spacing of hangers; overcome obstacles in route of a raceway. Animation. Supplementary filmstrip, same title, also available. (*OE 111; 21 minutes*)
..... **32, 41**

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 1: Running a Temporary Line
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 6) How the propeller post is prepared for running a temporary line; how to adjust a line to the center of bulkhead openings; eliminate the sag when a line has been run. Supplementary filmstrip, same title, also available. (*OE 100; 22 minutes*)
..... **32, 41**

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 2: Laying Off Bulkheads
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 7) How to measure on bulkheads from the temporary line; establish the center of bulkhead openings; the purpose for laying off the bulkheads; and when to run the permanent line. Supplementary filmstrip, same title, also available. (*OE 101; 15 minutes*)
..... **32, 41**

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 3: Running a Permanent Line and Boring
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 8) How to run the permanent line; establish reference marks on bulkhead, propeller post, and doubler ring; install and adjust the boring bar; rough- and finish-bore propeller post and various bulkheads to specifications. Supplementary filmstrip, same title, also available. (*OE 341; 32 minutes*)
..... **32, 41**

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 4: Fitting Tube, Shaft, and Propeller
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 9) How the stern tube and tail shaft are installed; the propeller swung into position and lined up; fairwater cap and rope guard installed; tailshaft assembly secured for launching. Supplementary filmstrip, same title, also available. (*OE 342; 29 minutes*)
..... **32, 41**

Laying Out, Drilling, and Tapping Flanges on Sea Chest
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 4) Component parts of a sea chest; how locations of flanges are checked; flanges leveled; stud hole centers laid out; stud holes drilled and tapped. Supplementary filmstrip, same title, also available. (*OE 98; 19 minutes*)
..... **32, 41**

Laying Out Small Castings
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 6) How to lay out holes for drilling; locate a reference point; use hermaphrodite calipers, combination square, and surface gage. Supplementary filmstrip, same title, also available. (*OE 40; 16 minutes*)
..... **32, 41**

Lead Milling, Smelting and Refining
U.S. Bureau of Mines in cooperation with St. Joseph Lead Co., 1940. Buildings, machinery, and steps in the process of converting mined lead ore into useful and marketable products. Technical presentation. (*34 minutes*)
..... **17**

Lead Mining in Southeast Missouri
U.S. Bureau of Mines in cooperation with St. Joseph Lead Co., 1940. Lead mining operations in Southeast Missouri; geological formations in the lead belt; development of mining operations; industrial safety measures. College level. (*33 minutes*)
..... **17**

Learn the Leatherneck Way
U.S. Marine Corps, 1946. Recruiting film on trades and skills that can be learned in the Marine Corps. (*5 minutes*)
..... **15**

Learn to Swim
U.S. Department of Agriculture in cooperation with American National Red Cross, 1938. Confidence method of teaching swimming; basic strokes: breast, side, back, and crawl; clear analysis of each stroke through underwater and slow motion photography. Short versions, "Swimming. Parts 1, 2 and 3" also available. (*20 minutes*)
..... **32, 41**

Learning To Swim
U.S. Coast Guard, 1943. Gaining confidence in the water, shoving off and

floating. How to swim the dog paddle. (*11 minutes*)
..... 41

Leatherneck Leadership
U.S. Marine Corps, 1950. An appeal to the adventure loving young man to join the Marines; what makes a Marine. Television film trailer. (*3 minutes*)
..... 15

Leathernecks on Parade
U.S. Marine Corps, 1942. Recruit activity at Marine Training Base, San Diego, California, and at sea with U.S. Navy. Based on "From the Shores of Tripoli." (*10 minutes, color*)
..... 15

Lest We Forget
U.S. Department of the Army, 1947. Average infantryman's long tedious experiences; invasion training in England; Normandy invasions; capture of Cherbourg; hedgerow campaign; liberation of Paris; 3rd Army's armored drive; Battle of the Bulge; fall of Germany. (*M 1342; 78 minutes*)
..... 41

Let-Down and Low-Approach
U.S. Department of the Air Force, n.d. (Instrument Flying and Landing Series) Basic routine for let-down and low approach procedures; on Link Trainer. (*TF 1–530; 10 minutes*)
..... 7

Let's Be Childish
U.S. Economic Cooperation Administration, 1950. A lesson in international cooperation set against a background of glorious ice-capped French Alps; how children of all European countries, working together build a snow city to win a prize more valuable to them than anything they might have won through individual enterprise. (*20 minutes*)
..... 24

Leveling for Topographic Mapping
U.S. Geological Survey, 1951. Title self-explanatory. Technical, college and professional level. (*20 minutes, color*)
..... 19

Liberation of Rome
U.S. Department of the Army, 1944. Scenes of the celebrating population and the religious activities after Rome's freedom. (*CR 1; 20 minutes*)
..... 41

Library of Congress
U.S. Office of War Information, Overseas Branch, 1945. Pictorial tour of Library of Congress, showing its many and varied facilities and activities. (*21 minutes*)
..... 32, 41

Life Cycle of Diphyllobothrium Latum
U.S. Public Health Service, 1950. Cinematography and motion photomicrography of living material and animation outline life cycle of the broad tapeworm of man. (*CDC–4–043; 15 minutes*)
..... 27, 41

Life Cycle of Endamoeba Histolytica in Dysenteric and Non-Dysenteric Amoebiasis
U.S. Department of the Navy, 1943. Parasites as cysts and an ulcerated colon; how amoeba divides into eight amoebulae which move about; how amoebae enter the blood. Animation. Special film for medical personnel. (*MN 2617; 15 minutes, silent, color*)
..... 41

Life Must Go On
U.S. Economic Cooperation Administration, 1950. E.C.A. explained in parable terms; seriously injured working man, rushed to a hospital, treated for shock, and administered blood plasma by the doctors, must recover from there on his own; how E.C.A. is blood plasma of post-war Europe; experimental work of young Italian directors. (*12 minutes*)
..... 24

The Life of Plants
U.S. Department of Agriculture, 1935. Different stages, characteristics, and development of different plant parts from seed to full growth by time-lapse photography; botanical details magnified. (*13 minutes*)
..... 32, 41

Lifeblood of the Land
U.S. Department of Agriculture, 1947. Disasters of overcutting, overgrazing, and erosion; appeal for water conservation to insure increased crops, productive range, water and forests for recreation, and rivers for fish and commerce. (*19 minutes, color*)
..... **3, 32, 41**

Lifeline: Medical Supply
U.S. Department of the Army, 1943. How the medical supply system of the Army functions; how the wounded of Rendova and Munda operations were evacuated and treated. (*WF 10; 17 minutes*)
..... **41**

Lifesaving
U.S. Department of Agriculture in cooperation with American National Red Cross, 1937. Instructional film; strokes best for lifesaving; approaches; breaking holds; carries; boat and ring buoy rescues; Schafer method of resuscitation; underwater photography. Silent version, same title, also available. (*17 minutes*)
..... **32, 41**

Lifesaving
U.S. Department of Agriculture in cooperation with American National Red Cross, 1937. Silent version of sound film "Lifesaving." (*25 minutes, silent*)
..... **32, 41**

Lift
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. (How an Airplane Flies Series No. 1) How action of air passing over wing section is extension of Venturi tube principle; how changes in air pressure on upper and lower surfaces of wing create upward force or lift; how angle of wing determines amount of lift. (*12 minutes*)
..... **7**

Lifting Templates for a Foundation
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. The Shipfitter) How to lift a template within the hull of a ship; transfer the shape of the hull by use of measurements and cardboard. Supplementary filmstrip, same title, also available. (*MN 2338–a; 23 minutes*)
..... **41**

Light-Sensitive Materials
U.S. Department of the Navy, 1948. (Fundamentals of Photography Series) Fundamentals of still and motion picture photography. (*MN 5385; 20 minutes, color*)
..... **41**

Lights, Running and Anchor
U.S. Department of the Navy, 1942. (Rules of the Nautical Road Series) Inland and international rules for color of lights, position and visibility for masthead, side, range and anchor lights, and lights displayed by vessels being overtaken. (*MN 202–c; 17 minutes, color*)
..... **41**

Lights: Vessels Being Towed
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Inland light rules for barges and canal boats; scows; barges; scows and nondescript vessels in N. Y. harbor area; dump scows in N. Y. harbor. (*MN 202–f; 10 minutes, color*)
..... **41**

Lighthouses and Lightships
U.S. Department of the Navy, 1944. (Aids to Navigation Series) Markings of coastal and inland water ways; principal aids to navigation and their purposes. (*MN 202–aa; 9 minutes, color*)
..... **41**

Lighting Off
U.S. Department of the Navy, 1944. (Fireroom Operation Series) Fire-room operation; adjustment of each piece of equipment preparatory to getting under way. Film for training for specific duties and teaching direct relationship of jobs. (*MN 2356–a; 39 minutes*)
..... **41**

Lima
U.S. Coordinator of Inter-American Affairs, 1944. Beauties, history, buildings, modern life, and problems of the City

of Kings and its transplanted old world society. (*16 minutes*)
..... 32, 41

Lima Family
U.S. Coordinator of Inter-American Affairs, 1944. A day in the lives of the members of an upper-class family of Lima, capital of Peru; similarities to a family of the same class in the United States. (*19 minutes*)
..... 32, 41

Limpeza Tras Saude
U.S. Office of Inter-American Affairs, 1945. (Saude para As Americas) Portuguese version of "Cleanliness Brings Health." Spanish version "Limpieza Trae Salud" also available. (*9 minutes, color*)
..... 37

Limpieza Trae Salud
U.S. Office of Inter-American Affairs, 1945. (Salud para Las Americas) Spanish version of "Cleanliness Brings Health." Portuguese version "Limpeza Tras Saude" also available. (*9 minutes, color*)
..... 37

Liner and Piston
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Benchwork) How to inspect liner; disassemble piston rod assembly; inspect slipper rod assembly, piston assembly, and piston; and replace rings. (*MN 3708–h; 21 minutes*)
..... 41

The Link Sextant: Air
U.S. Department of the Navy, 1943. (Navigation Series) Operating principle of the sextant; two ways of making observations; how to read the scale and grip the sextant properly while making observations. Animation. (*MN 83–x; 17 minutes*)
..... 7, 41

Liquid in Motion
U.S. Department of the Navy, 1944. (Elementary Hydraulics Series) Principles of liquids at rest, pressure and velocity energy; energy output in relation to flow and energy output variance with three different lengths of pipe. (*MN 1730–e; 13 minutes*)
..... 7

Liquid Sunshine
U.S. Economic Cooperation Administration, 1950. How oranges and lemons are grown in Sicily and southern Italy and shipped to Western European countries; processing of fruit from grove to consumer. (*10 minutes*)
..... 24

Livestock and Mankind
U.S. Department of Agriculture, 1938. Research, regulatory, and informational work of U.S. Department of Agriculture; cooperation with States in disease eradication, dairy laws, livestock improvement; scientific poultry raising. (*11 minutes*)
..... 32, 41

Livestock Cooperatives in Action
U.S. Department of Agriculture, 1950. History and services of livestock shipping and marketing cooperative organizations; research, credit facilities, transportation, stocker and feeder service, and marketing. Revision of "Marketing Livestock Cooperatively." (*15 minutes, color*)
..... 2, 32, 41

The Living Rock
U.S. Tennessee Valley Authority in cooperation with the University of Georgia, Agriculture Extension Service, 1944. How a people learn to understand that their needs and the needs of the land are related and begin an active partnership with the soil; experiences of a typical farm family producing bumper crops by use of lime and phosphate. (*30 minutes, color*)
..... 30, 40

Living With Limitations: Physical Medicine Rehabilitation for General Medicine and Surgery Patients
U.S. Veterans' Administration, 1949. How three veterans, suffering from arthritis, heart condition, and trick knee respectively are returned to physical, emotional, and mental health through VA aid; how

physical, occupational, and educational therapists cooperate; how vocational rehabilitation aids them in finding jobs suited to their physical limitations. (*20 minutes*)

..... **31, 32, 41**

Loading

U.S. Department of the Air Force, 1944. (How to Fly the B–26 Airplane Series) Effects of unbalanced cargo; factors determining weight and balance control in B–26: basic weight of plane; center of gravity, datum line, arm and moment, load adjuster slide rule, weight and balance checklist and pilot's diary. Models and animation. (*TF 1–3348; 18 minutes*)

..... **7**

Loading Cargo Ships

U.S. Department of the Army, 1943. (Military Stevedoring Series No. 1) How Army men load and unload hatches, stow supplies, seal hatches, and lash deck cargo; terms referring to equipment supplies and crew members. (*TF 55–937; 18 minutes*)

..... **41**

Loading of Motor and Rail Cargoes. Part 1: Box Cars

U.S. Department of the Army, 1943. How to load barrels, cardboard containers, boxes, sacks; brace and block mixed loads; protect cargoes. (*TF 10–1239; 16 minutes*)

..... **41**

Locating and Repairing Leaks

U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 3) How to test for sulphur dioxide and methyl chloride leaks; use the halide torch to locate freon leaks; and repair several types of leaks. Supplementary filmstrip, same title, also available. (*OE 440; 17 minutes*)

..... **32, 41**

Locating Holes, Drilling and Tapping in Cast Iron

U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Drill Press. Vertical Drill No. 1) How to lay out a bolt circle having eight holes; use the center punch marks as centers for drilling; and use a tapping chuck in tapping two of the holes for set screws. Supplementary filmstrip, same title, also available. (*OE 47; 18 minutes*)

..... **32, 41**

Location of Decks and Compartments

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Nomenclature of Ships) How lettering and numbering system is used on warships to facilitate locating decks and compartments; deck and compartment arrangement aboard ship. Supplementary filmstrip, same title, also available. (*MN 2334–b; 17 minutes*)

..... **41**

Logistics

U.S. Department of the Navy, 1949. (U.S. Naval Arctic Operations Series. Petroleum Reserve No. 4) Title self-explanatory. (*MN 5377–b; 33 minutes, color*)

..... **41**

Look to the Skies

U.S. Department of the Air Force, 1951. How tactical air power provides close air support so vital to surface forces in modern warfare; authentic scenes of World War II combat missions; recent developments in tactical aircraft; F–84 Thunderjet, the B–45, four-jet Tornado, Transport C–124, etc. (*SFP 252; 18 minutes*)

..... **11, 32, 41**

Loops

U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to loop; precautions before flight; coordination to be developed; errors to be corrected. "Joe Student" film. (*MN 1325–a; 13 minutes*)

..... **7, 41**

Loran: Airborne Operations

U.S. Department of the Navy, 1944. Peculiarities of Loran signal patterns under actual operation; how to install;

align; and operate gear. (*MN 2731–b; 22 minutes*)
..... 7

Loran: Basic Principles of Loran Operation
U.S. Department of the Navy, 1944. Radio activity in ionosphere; qualities of sky and ground waves; basic principles of Loran operation; relation of Loran master and slave stations; how navigator uses to plot a fix. (*MN 2731–a; 12 minutes*)
..... 7

Loran for Ocean Navigation
U.S. Coast Guard, 1947. Various uses of Loran in ocean navigation. (*20 minutes*)
..... 21

The Lord's Prayer
U.S. Department of Defense, 1950. U.S. Air Force's Singing Sergeants sing "The Lord's Prayer." (*4 minutes*)
..... 11, 32, 41

Los Pastos
U.S. Department of Agriculture, 1940. Effect of overstocking and overgrazing in Western range country upon erosion; prevention of overgrazing and restoration to productivity. Spanish version of "Grassland." (*10 minutes*)
..... 41

Lost Time
U.S. Economic Cooperation Administration, 1950. How time is wasted in modern age of speed; how in era of reconstruction it may be possible and desirable to slow down a little and save time. (*10 minutes*)
..... 24

Lower Souris Refuge
U.S. Fish and Wildlife Service, 1946. Why establish National Wildlife Refuges; map of Souris River refuges; necessary improvements, food and cover planting; life and habitats of many birds. (*50 minutes, color, silent*)
..... 20

LST
U.S. Coast Guard, 1944. Construction and trial run of LST (Landing-Ship-Tank); combat footage of amphibious operations. (*10 minutes*)
..... 21

LTA History: Balloons
U.S. Department of the Navy, 1944. History of balloon experimentation; problems, development; outstanding men; and modern balloon use. Animation, live action. (*MN 2722–a; 26 minutes*)
..... 41

Lubrication
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1942. Theory of friction and lubrication; practical application to various everyday mechanical elements; development and use of petroleum lubricants. (*30 minutes*)
..... 17

Lumbar Puncture
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to prepare patient for lumbar puncture; what happens when injection is made. Animation. (*MN 1511-n; 13 minutes*)
..... 41

Machine Transcription: Machine Operation
U.S. Department of the Navy, 1943. Purpose of dictating and transcribing machine; operation of Dictaphone and Ediphone types; how to reshave a cylinder, set controls, remove cylinder. (*MN 1562–a; 15 minutes*)
..... 32, 41

Machine Transcription: Transcription Technique
U.S. Department of the Navy, 1943. How to phrase dictation at various speeds; prepare for a day's work; compose a letter; correct mistakes. "Do's" and "dont's" of good transcription. (*MN 1562–b; 21 minutes*)
..... 32, 41

Machining a Cast Iron Rectangular Block
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Shaper No. 2) Use of parallels to set a block in a shaper vise for machining all six surfaces square with each other; how to make finishing cuts; set the machine for proper ram stroke and speed, cross feed, and depth of cut. Supplementary filmstrip, same title, also available. (*OE 20; 25 minutes*)
..... **32, 41**

Machining a Tool Steel V Block
U.S. Office of Education, 1942. (Machine Shop Work Series. Operation on the Shaper No. 3) How to lay out work for machining on a shaper; set up and position the ram stroke; and machine V grooves and rectangular slots. Supplementary filmstrip, same title, also available. (*OE 21; 21 minutes*)
..... **32, 41**

Machining Laminated Plastics
U.S. Office of Education, 1945. (Plastics Series No. 10) How to machine typical laminated part; cut the tube stock to length on a circular saw; turn the outside diameters on a lathe; machine inside diameters by boring with a lathe; finish the machining on a milling machine. Animation. Supplementary filmstrip, same title, also available. (*OE 475; 19 minutes*)
..... **32, 41**

Machining Work Held in Chuck: Use of Reference Surfaces
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 12) How to select and machine surfaces to be used for reference; set up a work-piece accurately to the reference surfaces in a lathe chuck; and use a boring bar to machine several internal surfaces. Supplementary filmstrip, same title, also available. Portuguese version "Elaboraçao de Uma Peça No Prato Ou Bucha" and Spanish version "Elaboración de Una Pieza en el Plato" also available. (*OE 60; 24 minutes*)
..... **32, 41**

Made in Occupied Japan
U.S. Department of the Army, 1949. Revival of pottery industry in Japan; various processes involved in making pottery. (*M 7561; 14 minutes*)
..... **12, 41**

Magic Bullets
U.S. Public Health Service, 1943. Dr. Paul Ehrlich discovers a cure for syphilis after years of experimenting with arsenic and bismuth. Short edited version of "Dr. Ehrlich's Magic Bullets." For general public. (*30 minutes*)
..... **26**

Magnesium: Metal From the Sea
U.S. Bureau of Mines in cooperation with Dow Chemical Co., 1944. Designer's dreams of tomorrow made possible by magnesium; production processes; industrial and domestic uses. (*23 minutes*)
..... **17**

Maintaining Good Working Conditions
U.S. Office of Education, 1944. (Problems in Supervision Series) Two supervisors, Larry Daniels and Joe Graff, describe specific ways, dramatically reenacted, they used in improving working conditions. (*OE 152; 9 minutes*)
..... **32, 41**

Maintaining Quality Standards
U.S. Office of Education, 1944. (Problems in Supervision Series) Bert Bowdler, a supervisor, learns that quality as well as quantity production is necessary, and how such quality standards can be achieved and maintained. (*OE 164; 10 minutes*)
..... **32, 41**

Maintaining Workers' Interest
U.S. Office of Education, 1944. (Problems in Supervision Series) Dramatized instances of employees doing poor work because their jobs do not interest them, and what the supervisor should do to

detect and remedy such situations. (*OE 159; 13 minutes*)
..... **32, 41**

Maintenance
U.S. Department of the Air Force, 1942. (Parachutes Series) Routine and complete inspections, repairs, replacements, overhaul, drop testing, cleaning, washing, storage, and packing for shipping. (*TF 1–542; 16 minutes*)
..... **7**

Maintenance in Light Tank M5
U.S. Department of the Army, 1943. (Hydramatic Transmission Series No. 4) How transmissions are connected to transfer units and control differential; how to check lubrication and oil pressure; test bands and clutch; daily maintenance procedure. (*TF 9–1004; 24 minutes*)
..... **41**

Maintenance of Alighting Gear
U.S. Department of the Air Force, 1942. (Aircraft Alighting Gear Series) Demonstrates checking and filling hydraulic systems on the tricycle landing gear. How to carry on common maintenance procedures without wing jacks or removing shock strut on P–38. (*TF 1–516; 12 minutes*)
..... **7**

Maintenance of Equipment
U.S. Department of the Army, 1945. (Lubrication of Military Vehicles Series No. 3) Cleanliness in maintaining volume pump and pressure guns, including hand operated and machine operated guns, hoses, fittings, and lubricant storage containers. (*TF 9–1418; 21 minutes*)
..... **41**

Maintenance of Office Machines
U.S. Department of the Navy, 1943. How to care for typewriters, transcribing machines, dictaphones, adding machines, and calculators. Effects of dirt, dust, and carelessness. (*MN 1513; 36 minutes*)
..... **32, 41**

Maintenance of Plexiglass and Lucite
U.S. Department of the Navy, 1945. How to clean plexiglass with soap and water or cleaning fluids; remove scratches, repair cracks and bullet holes. (*MN 2218–b; 37 minutes*)
..... **41**

Maintenance Tank Cleaning: Butterworth Method
U.S. Department of the Navy, 1950. (Navy Tank Cleaning Procedures Series) Training film; title self-explanatory. (*MN 6689–a; 31 minutes*)
..... **41**

Making a Center Punch
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 13) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Making a Cold Bend on a Hand Powered Machine
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 4) Importance of bends in marine pipe installation; how to measure pipe for bends; operate a hand-bending machine; check bend against the work order. Supplementary filmstrip, same title, also available. (*OE 108; 13 minutes*)
..... **32, 41**

Making a Cone Point Set Screw
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 12) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Making a Core Box for a Flanged Pipe Elbow
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 10) How to use pattern layout in making a core box; design a core box; lay out a curved core piece; turn the core cavity in a curved piece; assemble a core box having a curved core piece; finish the core box. Supplementary filmstrip, same title, also available. (*OE 330; 21 minutes*)
..... **32, 41**

Making a Core Box for a Machine Base
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a patternmaker, working from a casting, designs a core box; how to design and construct two core boxes in which mating cores are to be made, large core boxes with loose pieces, and a small, half-core box with interchangeable loose boxes. Supplementary filmstrip, same title, also available. (*OE 334; 13 minutes*)
..... **32, 41**

Making a Core Box for a Tail Print
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 4A) How to use dry sand cores in molding holes in castings; use pattern layout to make a core box; distinguish between core and core print; lay out the core print; add the core; and determine parting line of a core box. Supplementary filmstrip, same title, also available. (*OE 350; 18 minutes*)
..... **32, 41**

Making a Core Box for a Vertical Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 9) Function of the sand core; how to make a half box; use parted boxes; use layout pattern in making a core box; prepare core box pieces; assemble a core box. Supplementary filmstrip, same title, also available. (*OE 329; 19 minutes*)
..... **32, 41**

Making a Fiddle Bow
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 8) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Making a Five Tuck Splice
U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 2) How to make the first tuck and the four succeeding tucks; taper, set, serve, and shellac the splice. Supplementary filmstrip, same title, also available. (*OE 143; 26 minutes*)
..... **32, 41**

Making a Hot Bend
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) How to select pipe; pack with sand; heat; and bend; diagrams, actual demonstration. Supplementary filmstrip, same title, also available. (*MN 2337–e; 15 minutes*)
..... **41**

Making a Master Contour Template
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 1) Purpose of a master contour template; how to transfer a line from a linesboard to a piece of sheet metal; measure and record bevel angles; and the importance of frequent checks for accuracy. Supplementary filmstrip, same title, also available. (*OE 125; 18 minutes*)
..... **32, 41**

Making a Master Developed Layout. Part 1
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 2) How to make the complete pattern or master developed layout for a bulkhead in an airplane fin, using a master contour template. Supplementary filmstrip, same title, also available. (*OE 126; 20 minutes*)
..... **32, 41**

Making a Master Developed Layout. Part 2; and Making the Form Block
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 3) How to complete a master developed layout by calculating and scribing the form block lines. Supplementary filmstrip, same title, also available. (*OE 127; 16 minutes*)
..... **32, 41**

Making a Matchboard Pattern
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 8) How to sketch a matchboard; make the patterns; prepare gates to connect patterns; prepare

the runner for the cope side; assemble the matchboards; turn a draft taper on a hole; attach flask fixtures. Supplementary filmstrip, same title, also available. (*OE 328; 21 minutes*)

..... 32, 41

Making a One-Piece Flat Pattern

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 1) How to identify the parts of the molding flask; use shrinkage rules; prepare a pattern layout; make identical castings; and finish patterns. Supplementary filmstrip, same title, also available. (*OE 321; 22 minutes*)

..... 32, 41

Making a Pattern for a Flanged Pipe Elbow

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 7) How to make a right-angle layout; turn out separate core prints; make split flanges; set flanges into core prints; assemble half the pattern on the layout; dowel an elbow pattern; apply leather fillets. Supplementary filmstrip, same title, also available. (*OE 327; 18 minutes*)

..... 32, 41

Making a Pattern for a Machine Molded Steel Globe and Angle Valve

U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How machine molding affects pattern design; how a patternmaker designs and constructs a pattern for a valve body, including the gating system. Supplementary filmstrip, same title, also available. (*OE 340; 14 minutes*)

..... 32, 41

Making a Pattern for a Three-Part Mold

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 6) Reasons for the three-part pattern; how to make the layout; segment the body or center section; eliminate end grain on large flanges; and turn large work on the lathe. Supplementary filmstrip, same title, also available. (*OE 326; 20 minutes*)

..... 32, 41

Making a Pattern Requiring a Cover Core

U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How molding and coring problems lead to the choice of a cover core; how a patternmaker designs a pattern (and core boxes) requiring a cover core, designs a cover print, and constructs a pattern for a cover pulley. Supplementary filmstrip, same title, also available. (*OE 332; 14 minutes*)

..... 32, 41

Making a Pattern Requiring Box Construction

U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a patternmaker makes a pattern from a casting; designs a pattern to be made of box construction for a large machine base; why box construction is used. Supplementary filmstrip, same title, also available. (*OE 333; 17 minutes*)

..... 32, 41

Making a Pattern Requiring Segmental Construction

U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Why segmental construction is a preferred method for some patterns; how a patternmaker designs and constructs a pattern for a gear blank which requires segmental construction. Supplementary filmstrip, same title, also available. (*OE 335; 13 minutes*)

..... 32, 41

Making a Pattern Using a Green and a Dry Sand Core

U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a green sand core is molded; how a patternmaker determines when to allow for a green sand core, designs a pattern allowing for a green sand core, visualizes and constructs a particular pattern. Supplementary film-

strip, same title, also available. (*OE 331; 14 minutes*)

..... 32, 41

Making a Pattern with a Horizontal Core

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 3) When to use a horizontal core; how to allow for shrinkage in bronze; lay out fillets; make horizontal core prints; true up a parting plane; turn crusher strips. Supplementary filmstrip, same title, also available. (*OE 323; 14 minutes*)

..... 32, 41

Making a Pattern with a Tail Print

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 4) How to mold castings with holes; make a rough sketch for visualizing the actual casting; dry sand cores; form core cavities by using tail prints; and make a layout including tail prints. Supplementary filmstrip, same title, also available. (*OE 324; 19 minutes*)

..... 32, 41

Making a Pattern with a Vertical Core

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 2) Importance of making a preliminary sketch; how to make the layout; allow for shrinkage; allow for finish; layout the core prints; use the layout; assemble the pattern; allow for draft; and shellac the pattern. Supplementary filmstrip, same title, also available. (*OE 322; 14 minutes*)

..... 32, 41

Making a Segmented Pattern

U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 5) How to plan segmentation of pattern; lay out segments and web; assemble the pattern; prepare a recessed hub; and finish the pattern. Supplementary filmstrip, same title, also available. (*OE 325; 22 minutes*)

..... 32, 41

Making a Simple Core

U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 2) How to prepare a suitable sand for coremaking; make a small cylindrical core in either one or two pieces; assemble a two-piece core; and how core gases escape when a mold is poured. Supplementary filmstrip, same title, also available. (*OE 424; 15 minutes*)

..... 32, 41

Making a V-Type Engine

U.S. Bureau of Mines in cooperation with Ford Motor Co., 1936. Unloading ore boat; iron ore storage; changing and tapping blast furnaces; adding alloys; building molds, and casting molten ore; machine operations on various engine parts; and assembly of engines. (*30 minutes, silent*)

..... 17

Making a Wire Template

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) How to draw lay-out measurements with and without blueprints; transfer blueprints; find radius with beam compass; bend a template with special tools and an accurate full scale drawing. Supplementary filmstrip, same title, also available. (*MN 2337–b; 19 minutes*)

..... 41

Making a Wrapped and Soldered Splice

U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 1) How to make a ball soldered terminal; prevent the wires from unlaying when cut; fit a cable to a thimble; and make the wire wrap. Supplementary filmstrip, same title, also available. (*OE 144; 15 minutes*)

..... 32, 41

Making and Repairing Tubing Connections

U.S. Office of Education, 1944. (Refrigeration Service Series. Commercial Sys-

tems No. 5) How to straighten copper tubing; work, cut, and dress copper tubing; make a flare for various sizes of tubing; sweat in a connector to cover a break. Supplementary filmstrip, same title, also available. (*OE 452; 18 minutes*)
..... **32, 41**

Making An Anchor Belt
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 15) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

The Making of Steel
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940 (The Making and Shaping of Steel Series) Scrap iron being charged into open-hearth furnace, mixing and pouring, sampling, interior of furnace, slagging off metal, skimming, adding of ferrochrome, tipping furnace; pouring metal, removing molds from ingots after steel solidifies; electric furnace and Bessemer process. Animated drawings. (*15 minutes, silent*)
..... **17**

Making Pattern, Core Boxes and Assembling Cores for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a patternmaker constructs the pattern and master core boxes; checks the working core boxes; pastes up and assembles test cores. Supplementary filmstrip, same title, also available. (*OE 339; 15 minutes*)
..... **32, 41**

Making Seawater Drinkable
U.S. Department of the Navy, 1944. Action of seawater on human body; newly developed desalting kit; how chemicals react on seawater; how pure water is filtered out. How a castaway uses filter bag. Animation. (*MN 2612; 13 minutes*)
..... **41**

Making Sheet Metal Repairs
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to prepare hole to receive patch; "bump" out plug and doubler; mark and drill plug and doubler; and rivet completed patch to part. Supplementary filmstrip, same title, also available. (*OE 252; 19 minutes*)
..... **32, 41**

Making Three Steel Staffs
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 14) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Malaria
U.S. Public Health Service, 1944. (Malaria Control Series) Anopheles quadrimaculatus and its habitat; transmission, diagnosis, and treatment of malaria; economic and related results of malaria; and, individual and community preventive measures. Freeze frame photographs. (*CDC–4–024; 13 minutes*)
..... **27**

Malaria
U.S. Department of the Navy, 1944. (Medicine in Action Series No. 1. Pacific Enemy No. 2) Suppressive theory such as malaria discipline and atabrine; control measures such as elimination of pools of water, spraying of water, cutting of underbrush, and treatment of natives. (*MN 3726–e; 11 minutes, color*)
..... **41**

Malaria Control In the Tennessee Valley
U.S. Tennessee Valley Authority, 1941. How TVA reduced prevalence of malaria around borders of TVA reservoir; technical methods. (*40 minutes, color*)
..... **30, 40**

Malaria Control on Impounded Waters
U.S. Public Health Service with the cooperation of Tennessee Valley Authority, 1948. (Malaria Control Series) Malaria control program for Kentucky Reservoir:

planning; reservoir clearance before impoundage; permanent and emergency control measures; and reservoir operation. (*CDC–4–069.1; 19 minutes, color*)
..... **27, 41**

Malaria: Guerra Ao Mosquito
U.S. Coordinator of Inter-American Affairs, 1943. Portuguese version of "Winged Scourge." Spanish version "La Pesta Alada" also available. (*10 minutes, color*)
..... **37**

Man With a Mission
U.S. Department of the Army, 1950. Story of a typical member of the Organized Reserve Corps and his training in all fields; opportunities offered young men by Organized Reserve Corps. (*M 7800; 17 minutes*)
..... **12**

Management of Men in Forest Fire Fighting
U.S. Department of Agriculture, 1942. Training film on organizing forest fire fighting crews on one-man to multi-crew fires. (*39 minutes, silent, color*)
..... **3, 32, 41**

Man-Made Canyon
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1949. Extracting nickel-copper ore from open pit mine; methods and equipment; and heating devices for working in winter. (*19 minutes*)
..... **17**

Manson's Blood Fluke
U.S. Public Health Service, 1948. (Schistosomiasis Control Series) Transformation-development stages of schistosome in secondary and primary hosts; biologic relationships between blood fluke and hosts, man and snail; pathology of Manson's schistosomiasis in man. Animation and photomicrography. (*CDC–4–034; 16 minutes*)
..... **27, 41**

Manual Cutting a Bevel: Freehand
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 2) How to select a tip for bevel cutting; clean a tip; adjust oxygen and acetylene pressure for bevel cutting; and cut a bevel with minimum drag. Supplementary filmstrip, same title, also available. (*OE 187; 13 minutes*)
..... **32, 41**

Manual Cutting a Shape: Freehand Guided
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 3) How to make plywood template for cutting; make a tip guide device; position a template for cutting; use the guide device; and use a circle cutting device. Supplementary filmstrip, same title, also available. (*OE 188; 16 minutes*)
..... **32, 41**

Manual Cutting to a Line: Freehand
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 1) How to assemble an oxyacetylene cutting outfit; adjust the preheating cutting flames; make a 90 degree freehand cut; and disassemble the cutting outfit. Supplementary filmstrip, same title, also available. (*OE 186; 21 minutes*)
..... **32, 41**

The Manual of Arms
U.S. Department of the Navy, 1942. (Close Order Drill Series) How to execute order arms, inspect arms, trail arms, left and right shoulder arms, parade rest, fix and unfix bayonets, and the rifle salutes. (*MN 201–c; 28 minutes*)
..... **41**

Manufacture and Usage
U.S. Department of the Navy, 1945. (Self-sealing Fuel Cells Series) Manufacture of a self-sealing fuel cell: cutting, fitting, and shellacking of cardboard cell; fitting rubber layer; applying nylon, sealant; retainer, and buna inner lining; vulcanizing; jig testing; why nylon, sealant, retainer, and buna inner lining are main features of cell. (*MN 4318–a; 10 minutes*)
..... **41**

Manufactured Abrasives
U.S. Bureau of Mines in cooperation with The Carborundum Co., 1939. Discovery and making of carborundum; making of aloxite; making, storing, and packing grinding wheels; uses of manufactured abrasives, sanding papers and cloth. Silent version, same title, also available. (*24 minutes*)
..... **17**

Manufactured Abrasives
U.S. Bureau of Mines in cooperation with The Carborundum Co., 1939. Discovery and making of carborundum; making of aloxite; making, storing, and packing grinding wheels; uses of manufactured abrasives, sanding papers and cloth. Sound revision, same title, also available. (*30 minutes, silent*)
..... **17**

Manufacturing Methods
U.S. Department of the Air Force, 1942. (Airplane Structures Series) Complete steps in manufacture of military airplanes, including wings, fuselage, engine, and tail. (*TF 1–323; 25 minutes*)
..... **7**

Many Men at Many Guns
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) Corpsman's training: boot camp; Hospital Corps School; hospital and sea duties; battle station aid. (*MN 1511–a; 22 minutes*)
..... **41**

Map Reading
U.S. Department of the Army, 1935. How tactical, strategic, and terrain maps differ; types of maps, scales, signs, distance, direction, latitude and longitude, rectangular and polar coordinates, elevation contours, slopes, profiles, and visibility. (*TF 5–12; 43 minutes*)
..... **41**

Marine Diesel Engines for Power Boats
U.S. Department of the Navy, 1942. Buda marine diesel engines DA, DB, and DD; mechanical operation of the DB; points of difference from the DD. Animation and straight photography. (*MN 47; 16 minutes*)
..... **41**

Marine Hymn
U.S. Office of War Information, Domestic Branch, with the cooperation of the U.S. Marine Corps, 1943. "From the halls of Montezuma to the shores of Tripoli"—United States Marine Song sung against a background of action scenes. (*3 minutes*)
..... **32, 41**

Marines Are Made
U.S. Marine Corps, 1950. How Marine activities are coordinated with the work of the other branches of the Armed Forces. Television film trailer. (*1 minute*)
..... **15**

Marines in the Air, on Land and Sea
U.S. Marine Corps, 1950. How the three branches of the Marine Corps are used in tactical formations. Television film trailer. (*1 minute*)
..... **15**

The Marshall Plan At Work In Austria
U.S. Economic Cooperation Administration, 1950. Report on contributions of the Marshall Plan to efforts of Austrian people in achieving economic recovery. (*13 minutes*)
..... **24**

The Marshall Plan At Work In Belgium
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of Belgian people in achieving economic recovery. (*13 minutes*)
..... **24**

The Marshall Plan At Work In Denmark
U.S. Economic Cooperation Administration, 1950. How a constant interchange of mutually needed goods between Denmark, England and the United States, supported and stimulated by Marshall Plan aid, brings Denmark closer to re-

covery with each ship that docks in Copenhagen. (*13 minutes*)
..... 24

The Marshall Plan At Work In France
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of French people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Great Britain
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of British people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Greece
U.S. Economic Cooperation Administration, 1950. How Greece with sub-standard living conditions, poor livestock strains and exhausted soil before World War II is becoming a better, more prosperous country as the Marshall Plan restores schools and transportation facilities and introduces modern farm equipment, scientific agriculture, and large-scale irrigation projects. (*13 minutes*)
..... 24

The Marshall Plan At Work In Holland
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of Dutch people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Ireland
U.S. Economic Cooperation Administration, 1950. Report on the contributions of Marshall Plan to efforts of Irish people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Italy
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of Italian people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Norway
U.S. Economic Cooperation Administration, 1950. Reports on the contributions of the Marshall Plan to the efforts of the Norwegian people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Turkey
U.S. Economic Cooperation Administration, 1950. Report on contributions of the Marshall Plan to the efforts of the Turkish people in achieving economic recovery. (*13 minutes*)
..... 24

The Marshall Plan At Work In Western Germany
U.S. Economic Cooperation Administration, 1950. Report on contributions of Marshall Plan to efforts of the German people in achieving economic recovery. (*13 minutes*)
..... 24

Mas Leche
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Better Farming: More Milk." Portuguese version "Produza Mais Leite" also available. (*10 minutes, color*)
..... 37

Materials Handling Methods
U.S. Department of the Army, 1949. How to handle materials in large warehouses and load and unload bulky equipment. (*TF 10–1530; 22 minutes*)
..... 41

Matériel Handling Methods
U.S. Department of the Army, 1943. Correct methods and unloading devices for handling materials from boxcar to warehouses. Use of the fork truck and a

properly constructed platform for unloading motor vehicles. (*TF 104–1080; 16 minutes*)
..... 41

The Matrix
U.S. Department of the Navy, 1948. (Operative Dentistry Series) Title self-explanatory. (*MN 5369–c; 6 minutes, color*)
..... 41

The McCormick-Maru Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Title self-explanatory. (*MN 202–l; 4 minutes, color*)
..... 41

Measurement of Water
U.S. Bureau of Reclamation [1940?] Why water should be measured; how to determine when, how and how much water to apply; measure water and install measuring devices; and figure flows in cubic feet per second and in acre feet. (*30 minutes, color*)
..... 18

Measurement With Light Waves
U.S. Office of Education, 1944. (Engineering Series. Materials Testing No. 2) Principles of measurement with light waves; nature of light waves; cause of interference bands and use of these bands in ultra-precision measurement. Procedures in gage block inspection. Supplementary filmstrip, same title, also available. (*OE 174; 15 minutes*)
..... 32, 41

Measuring Pipe, Tubing, and Fittings
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 1) How to identify types of pipe, tubing, and fittings; use basic measuring tools; measure pipe for offsets; make allowances for fittings and offsets in measuring pipe; and the safety factors in handling pipe. Supplementary filmstrip, same title, also available. (*OE 105; 15 minutes*)
..... 32, 41

Meat Cutting Tools and Equipment
U.S. Department of the Army, 1943. (The Army Cook Series No. 1) Special handling instructions for each type of kitchen knife and saw; safety precautions in using and in sharpening. (*TF 10–1133; 20 minutes*)
..... 41

Meats with Approval
U.S. Department of Agriculture, 1949. History, purpose, procedures, and value of Federal meat inspection program; steps of inspection from stockyard to cannery. Slaughter house scene deleted from original. Revision. (*16 minutes*)
..... 32, 41

The Mechanic
U.S. Office of Inter-American Affairs, 1946. Work and life of a master mechanic in an Ohio town—his job in the factory, activities around home, a family trip to the country on Sunday. (*14 minutes*)
..... 32, 41

Mechanical Packing Aboard Ship
U.S. Department of the Navy, 1945. How to pack spiral wound gasket and steam reciprocating pump rod; repack a centrifugal part; and replace packing around a condenser tube. (*MN 2505; 30 minutes*)
..... 41

Mechanical Refrigeration: How It Works
U.S. Department of the Navy, 1944. Function, theory and operation of refrigeration system. (*MN 2246–a; 21 minutes*)
..... 32, 41

Medical and Physical
U.S. Department of the Navy, 1944. (Deep Diving Series) History of diving suit; definition of terms; function of recompression chamber; effects of diving on respiratory system; cause of bends; saturation tests for nitrogen absorption. (*MN 105–a; 28 minutes, color*)
..... 41

The Medical Effects of the Atomic Bomb. Part 1: Physics, Physical Destruction, Casualty Effects
U.S. Department of the Army, 1950. (Professional Medical Films Series) Nuclear physics: fission and general reaction; thermal energy and mechanical force; nuclear radiation and ionizing effects; physical destruction; casualty effects. (*PMF 5058; 32 minutes, color*)
..... **32, 41**

The Medical Effects of the Atomic Bomb. Part 2: Pathology and the Clinical Problem
U.S. Department of the Army, 1950. (Professional Medical Films Series) Mechanism of thermal, traumatic, and radiation effects; clinical observations; diagnosis and prognosis; pathological material for illustrative purposes. Technical film. (*PMF 5148; 37 minutes, color*)
..... **41**

The Medical Effects of the Atomic Bomb. Part 3: Medical Services in Atomic Disaster
U.S. Department of the Army, 1950. (Professional Medical Films Series) How medical personnel may alleviate disaster of atomic bombing; why bombed city would depend on organized assistance from surrounding area; necessary preparatory measures. (*PMF 5149; 27 minutes, color*)
..... **32, 41**

Medical Service Second To None
U.S. Veterans' Administration, 1946. What the medical facilities and program of the VA offer the doctor. Primarily to recruit doctors for VA. (*28 minutes*)
..... **31**

Meeting at Night
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Five basic meeting situations; night whistle signals on ocean, inland waters, and narrow channels; causes of head-on collisions; emergency action signals. (*MN 202–m; 20 minutes, color*)
..... **41**

Meeting Steam Vessels
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) How steam vessels meet on ocean and inland waters; whistle signals for various situations; how to figure degree of a vessel's turn at various distances. (*MN 202–k; 17 minutes*)
..... **41**

Mejores Herramientas
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "From Small Beginnings." Portuguese version "Ferramentas E Maquinas," also available. (*7 minutes, color*)
..... **37**

The Memphis Belle
U.S. Department of the Air Force, 1944. Story of the 25th mission of the flying fortress Memphis Belle, a daylight raid on Wilhelmshaven, Germany. (*SFP 114; 42 minutes, color*)
..... **11**

Men and the Sea
U.S. Office of War Information, Domestic Branch, 1942. How men who man the cargo ships carrying food, munitions, and supplies throughout the world are trained: seamanship, signaling, gunnery, radio operation, mechanical work, etc. Presented by the U.S. Maritime Commission. (*10 minutes*)
..... **32, 41**

Men At Work
U.S. Economic Cooperation Administration, 1950. How "Humanitaria", a trade school in northern Italy, supported by E.R.P. counterpart funds, teaches special skills to over 100,000 unemployed workers who, through practical courses such as welding, printing, masonry, reforestation and cooking, are helping to rebuild Italy as well as themselves. (*12 minutes*)
..... **24**

Men of Fire: Forgings and Castings
U.S. Department of the Army, 1944. How the work of the men of the forgings and castings industry helps win victory

in war; combat scenes in France. (*WF 29; 18 minutes*)
..... **41**

Men Who Grow Cotton
U.S. Department of Agriculture, 1947. Cotton in national economy; cotton belt life; Memphis cotton carnival; Southern industrial expansion, new uses of cotton, measures to meet increasing foreign competition. (*20 minutes, color*)
..... **32, 41**

Mercados Asseiados
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "The Sanitary Market." Spanish version "Mercados Higienicos" also available. (*9 minutes, color*)
..... **37**

Mercados Higienicos
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "The Sanitary Market." Portuguese version "Mercados Asseiados" also available. (*9 minutes, color*)
..... **37**

Message to Women
U.S. Public Health Service, 1944. Facts about syphilis and gonorrhea. Animated sequences illustrate effects in women. Stresses necessity for better understanding of disease. (*20 minutes, color*)
..... **26**

Methods of Lubrication
U.S. Department of the Army, 1945. (Lubrication of Military Vehicles Series No. 2) Kinds of lubrication, equipment, amount, where and when to use; importance of keeping free from grit and dirt and applying according to lubrication charts. (*TF 9–1417; 25 minutes*)
..... **41**

Methods of Processing Plastics Materials
U.S. Office of Education, 1945. (Plastics Series No. 2) Fundamentals of the compression, transfer, extrusion, and injection molding methods; finishing of molded parts; fundamentals of lamination; machining laminated and other plastics products. Animation. Supplementary filmstrip, same title, also available. (*OE 467; 21 minutes*)
..... **32, 41**

Mexico Builds a Democracy
U.S. Coordinator of Inter-American Affairs, 1942. Rural education in Mexico; how young village instructor carries out a program of education for democracy for Tarascan people. (*19 minutes, color; also b&w*)
..... **32, 41**

Mexico City
U.S. Coordinator of Inter-American Affairs with cooperation of the Tourist Department of Mexico and Mexican Tourist Bureau, 1945. Tourist view of the city: cathedrals, hotels, parks, flower markets at Xochimilco, and fiestas including dance to god of Fire. (*11 minutes, color*)
..... **32, 41**

Microfilariae of Wuchereria Bancrofti
U.S. Public Health Service, 1947. (Parasitology Series) Photomicrographs of activity of diurnally periodic microfilariae of W. bancrofti from blood of soldier infected in Society Islands. Sheath can be seen. (*CDC–4–058; 4 minutes, color*)
..... **27**

The Micrometer
U.S. Office of Education, 1941. (Machine Shop Work Series. Precision Measurement No. 2) Various forms of the micrometer; correct reading of barrel and thimble scales; use and care. Supplementary filmstrip, same title, also available. (*OE 2; 15 minutes*)
..... **32, 41**

Microwave Oscillators
U.S. Department of the Army, 1949. Magnetron and klystron as two oscillators; basic theory of operation of each. (*TF 11–1567; 18 minutes*)
..... **41**

Milho, O Gráo Que Foi O Alicerce De Um Hemisfério
U.S. Coordinator of Inter-American Af-

fairs, 1943. Portuguese version of "The Grain That Built a Hemisphere." Spanish version "La Semilla De Oro" also available. (*11 minutes, color*)
..... **37**

Military Pipeline System: CBI Theater
U.S. Department of the Army, 1948. (Historical Reports Series) Achievements of American troops who built pipeline under hazardous conditions and difficult terrain. (*HR–E–7; 23 minutes*)
..... **41**

Military Police Town Patrolling
U.S. Department of the Army, 1948. How problems confronting urban military police are effectively dealt with; coordination and operation of town patrols, foot and motor. Revision. (*TF 19–1483; 25 minutes*)
..... **41**

Military Progress
U.S. Department of the Army, 1949. How a protective force with new weapons and equipment is built; activities in National Guard, organized reserves, and U.M.T. (*AFSR 102; 14 minutes*)
..... **41**

Military Railway Service
U.S. Department of the Army, 1948. Operations of Military Railway Service; comparison between civilian and military railway operations; procedures in railway division; duties of all personnel. Orientation film. (*TF 55–1491; 30 minutes*)
..... **41**

Military Rock Climbing: Movement of Combat Units
U.S. Department of the Army, 1948. How men with certain types of equipment can move and operate in mountain areas; use of field expedients; handling organizational equipment; transporting sick and injured; precautions for individual climbers. (*TF 7–1480; 31 minutes*)
..... **41**

Military Rock Climbing: Technique of Climbing
U.S. Department of the Army, 1948. Two and three man "climbing teams": organization; equipment and its use; climbing technique for various types of formations; different types of holds and knots. (*TF 7–1475; 32 minutes*)
..... **41**

Military Sanitation: Disposal of Human Waste
U.S. Department of the Army, 1943. Importance of proper use of latrines and observance of strict sanitation rules; how and where to build various types of latrines; how to safeguard water supply. (*TF 8–1179; 18 minutes*)
..... **41**

Military Training
U.S. Department of the Army, 1942. Basic requisites, methods, and procedures of military training; approved army doctrine; utilization of texts and training aid equipment. (*TF 7–295; 58 minutes*)
..... **41**

Milk Processing
U.S. Public Health Service with the cooperation of U.S. Office of Education, 1946. (Small Milk Plant Operation Series) Covers the handling and pasteurization of milk by the holding process, the construction and operation of a vat-type pasteurizer, and the importance of guaranteeing safe milk. For milk handlers and sanitarians, general public. (*24 minutes*)
..... **26, 32, 41**

Milling a Circular T-Slot
U.S. Office of Education, 1943. (Machine Shop Work. Operations on the Vertical Milling Machine No. 5) How to mill a circular T-Slot in solid metal; use a rotary table for continuous circular milling; use a two-lip end mill, end mill, and T-Slot cutter; and use a dial indicator with a test bar in aligning the table. Supplementary filmstrip, same title, also available. (*OE 76; 22 minutes*)
..... **32, 41**

Milling a Foundation
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Outside Machinist) Set-up and operation of portable milling machine for milling a founda-

tion. Supplementary filmstrip, same title, also available. (*MN 2348–c; 21 minutes*)
..... 41

Milling a Helical Cutter
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 8) How to mount arbor cutter and arbor support; mount workpiece between centers; set dividing head for specified number of divisions; position workpiece for first cut; and rough- and finish-mill the workpiece. Supplementary filmstrip, same title, also available. (*OE 210; 18 minutes*)
..... 32, 41

Milling a Helical Groove
U.S. Office of Education, 1943. (Machine Shop Work. Operations on the Vertical Milling Machine No. 4) How to mill a helical groove in a cylindrical shaft; select and set the machine gears for milling a helical groove with any lead; and use the dividing head. Explains lead and backlash. Supplementary filmstrip, same title, also available. (*OE 75; 28 minutes*)
..... 32, 41

Milling a Template
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Milling Machine No. 5) How to mount the end mill in the milling machine spindle; position the table and workpiece in relation to the cutter; rough- and finish-mill the piece; and check for finished dimensions. Supplementary filmstrip, same title, also available. (*OE 207; 17 minutes*)
..... 32, 41

The Milling Machine
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Milling Machine No. A) Types of jobs which can be done on the milling machine; how to mount the cutter on the arbor; adjust the overarm bracket; set cutter speeds and table feeds. Supplementary filmstrip, same title, also available. (*OE 11; 8 minutes*)
..... 32, 41

The Milling Machine
U.S. Office of Education, 1944. (Machine Shop Work Series. Basic Machines) Functions, characteristics, and basic operations of the milling machine. Supplementary filmstrip, same title, also available. (*OE 69; 15 minutes*)
..... 32, 41

Mind In the Making
U.S. Veterans' Administration, 1946. How colored neuropsychiatric patients are treated and cared for, under group therapy plan, at the VA hospital, Tuskegee, Alabama. (*20 minutes*)
..... 31

Mine Fields. Section 1: Laying, Marking and Recording of the 6-Row Mine Belt; Section 2: Mine Clearance
U.S. Department of the Army, 1948. How to determine location of antimechanized mine belt and lay, mark, and record the six row mine belt; how specialized mine clearance units locate and remove mines formerly laid by U.S. engineers and additional enemy mines and booby traps. (*TF 5–1481; 59 minutes*)
..... 41

Minor Repair of Metal Covered Wings and Control Surfaces
U.S. Department of the Air Force, 1943. How to make a patch in the field on a shell damaged wing; replace a stiffener; apply various types of rivets; and repair a damaged rudder. For sheet metal workers operating in outlying bases. (*TF 1–816; 30 minutes*)
..... 7

Mr. Stuart Answers the Question
U.S. Department of Commerce, 1947. How a small businessman, Fred Stuart, owner of a small retail store, trains himself and his staff in modern selling methods. (*34 minutes*)
..... 10, 32, 41

Miracidia of Schistosoma Japonicum
U.S. Public Health Service, 1947. (Parasitology Series) Photomicrographs of miracidia of S. japonicum inside egg shell and free in fecal concentrate, show-

ing clearly absence of egg shell spine and activity of contained miracidia. (*CDC–4–060; 4 minutes, color*)
..... 27

The Miracle of Cassino
U.S. Economic Cooperation Administration, 1950. How Cassino razed to the ground during the war was rebuilt with counterpart funds; restoration of famous Abbey. (*12 minutes*)
..... 24

Miracle of Living
U.S. Department of the Army, 1947. Dramatized story on the value of continence illustrating the tragic consequences of venereal disease. (*TF 8–1474; 39 minutes*)
..... 32, 41

Mission Accomplished
U.S. Office of War Information, Domestic Branch, 1943. First all-American raid over occupied Europe. How American crews, piloting their Flying Fortresses, attacked the railroad yards at Rouen and returned safely to their base in England. (*10 minutes*)
..... 32, 41

Missouri and Its Natural Resources
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1950. (State Film Series No. 9) Influence of Mississippi and Missouri Rivers; importance of St. Louis and Kansas City; transportation and communication; agriculture; marble and ceramic clay; shale and limestone; metals and minerals; historical sites and recreational facilities. (*33 minutes, color*)
..... 17

Mr. Hoffman's Farewell Tour
U.S. Economic Cooperation Administration, 1950. Documentary of a three-week inspection tour by Paul Hoffman, administrative head of E.C.A. until late in 1950, to eight of the Marshall Plan nations to see first hand the effectiveness of his organization's activities. (*9 minutes*)
..... 24

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Miss Keeter Goes to Town
U.S. Public Health Service, 1944. (Dengue and Yellow Fever Control Series) Radio quiz program on dengue and yellow fever mosquitoes; early yellow fever epidemics; methods of treatment; life cycle of A. aegypti; and, elimination of mosquitoes about home. (*CDC–4–023.1; 19 minutes, color*)
..... 27

Modern Medicine Men
U.S. Bureau of Indian Affairs, [1948?] Problems and rewards of a doctor bringing medical science to Indians whose disease index is in excess of general population. (*20 minutes, color*)
..... 32, 34

Modern Metalworking with the Oxyacetylene Flame
U.S. Bureau of Mines in cooperation with The Linde Air Products Co. (Union Carbide & Carbon Corp.) 1937. Production of acetylene, the fuel gas for the oxyacetylene flame; construction and operation of oxyacetylene equipment (in animated photography); oxyacetylene process in use; value of oxyacetylene welding. (*30 minutes, silent*)
..... 17

Molding a Horizontal Cored Part
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 4) Use of a horizontal core, a split pattern, chaplets, and chaplet supports; how to gate a mold for rapid pouring of thin casting; and clean a casting. Supplementary filmstrip, same title, also available. (*OE 431; 22 minutes*)
..... 32, 41

Molding a Valve Body
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 3) Use of a split pattern and multipart dry sand core; how to gate a mold for rapid, uniform distribution of clean metal; locate a core and seal the core prints. Supplementary filmstrip, same title, also available. (*OE 430; 26 minutes*)
..... 32, 41

Molding on a Jolt Roll-Over Pattern Draw Machine
U.S. Office of Education, 1945. (Foundry Practice Series. Machine Molding) Principles of the jolt roll-over pattern draw machine; how to fill the drag and jolt it; draw the pattern; set the drag and cope pattern plates on master mold boards; and finish and close the mold. Supplementary filmstrip, same title, also available. (*OE 434; 23 minutes*)
..... **32, 41**

Molding on a Jolt Squeeze Machine
U.S. Office of Education, 1945. (Foundry Practice Series. Machine Molding) Principles of the jolt squeeze molding machine; how to roll the mold; fill the cope and apply pressboard; squeeze the mold; and draw the pattern, finish, and close the mold. Supplementary filmstrip, same title, also available. (*OE 433; 10 minutes*)
..... **32, 41**

Molding Part Having a Vertical Core
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 3) How to mold the drag and cope halves; mold a gate and riser; vent a mold so as to permit the escape of core gases; and locate a vertical core in a mold. Supplementary filmstrip, same title, also available. (*OE 425; 19 minutes*)
..... **32, 41**

Molding Part with Deep Green Sand Core
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 2) Why use a follow board with a thin, box-like pattern; how to locate sprue and watch-up pins; use gaggers; and ram and vent a green sand core. Supplementary filmstrip, same title, also available. (*OE 429; 25 minutes*)
..... **32, 41**

Molding with a Gated Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 5) What a gated pattern is and why it is used; how a match or follow board may simplify making a parting; how facing sand is prepared and used; and how and why some patterns are rapped. Supplementary filmstrip, same title, also available. (*OE 427; 11 minutes*)
..... **32, 41**

Molding with a Loose Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 1) How molding sand is prepared; how to face a pattern; ram and vent a mold; roll a drag; cut a sprue, runner, gates, and risers; swab, rap, and draw a pattern; and, by animation, what takes place inside a mold during pouring. Supplementary filmstrip, same title, also available. (*OE 423; 21 minutes*)
..... **32, 41**

Molding with a Loose Pattern (Floor)
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 1) Distinction between bench molding and floor molding; how to face a deep pattern; ram a drag and walk it off; clamp a mold; locate sprues and risers; and tuck the crossbars of a large cope. Supplementary filmstrip, same title, also available. (*OE 428; 24 minutes*)
..... **32, 41**

Molding With a Split Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 4) Why split patterns are used; how ramming affects the permeability of sand in a mold; how to mold the drag and cope; reinforce a mold with nails; and patch a mold. Supplementary filmstrip, same title, also available. (*OE 426; 19 minutes*)
..... **32, 41**

Molding With a Three Part Flask
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 5) How to use a deep follow board; technique of facing, ramming, and venting deep green sand core; how to use a cheek in a three-part flask; purpose and method of step-gating. Supplementary filmstrip, same title, also available. (*OE 432; 35 minutes*)
..... **32, 41**

Moles and Melanoma
U.S. Department of the Navy, 1945. Structure and skin cells of benign and malignant moles; how activation is started by mechanical irritation; why improper cauterization is ineffective while proper surgery is effective. (*MN 2713; 8 minutes, color*)
..... 41

The Monetary Clothing Allowance System
U.S. Department of the Army, 1949. Monetary clothing allowance system initiated by Quartermaster Corps; amount of money allowed to enlisted men upon induction into the Army, and subsequent allowances explained. (*FB 229; 7 minutes*)
..... 41

Montevideo Family
U.S. Coordinator of Inter-American Affairs, 1943. Daily life of a middle-class family in Montevideo, capital of Uruguay: housework; schoolwork; cultural and entertaining diversion; office work of father, etc. (*16 minutes*)
..... 32, 41

Monuments of Ancient Mexico
U.S. Coordinator of Inter-American Affairs, 1942. Records of ancient civilizations of Mexico: monuments, pyramids, etc.; reconstruction of villages in drawings from excavated ruins. (*35 minutes, color*)
..... 32, 41

More Milk
U.S. Department of Agriculture, 1944. Need for increased milk production to be met by small farm herds producing more milk with scientific care and feed. (*11 minutes*)
..... 32, 41

More Money From Wool
U.S. Bureau of Indian Affairs, 1949. How to hand shear and prepare wool for market under reservation conditions; how to increase income from wool by improved handling. (*20 minutes, color*)
..... 34

More Money From Wool
U.S. Bureau of Indian Affairs, 1949. Navajo version of motion picture with same title. (*20 minutes, color*)
..... 34

Morning Care
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How bedfast patients are roused, fed, and ward put in order; how "up" patients help in setting up trays. (*MN 1511–b; 7 minutes*)
..... 41

Mosquito Proofing for Malaria Control
U.S. Public Health Service with the cooperation of Tennessee Valley Authority, 1946. (Malaria Control Series) Breeding places of malaria-carrying mosquito; methods of mosquito-proofing a home; economic and health benefits of malaria control. (*CDC–4–026.1; 10 minutes*)
..... 27

The Mosquito: Public Enemy
U.S. Department of Agriculture, 1944. Malaria and yellow fever mosquitoes; development of larvae and pupae; breeding places; control methods. Revision. Silent version "Mosquitoes" also available. (*14 minutes*)
..... 32, 41

Mosquitoes
U.S. Department of Agriculture, 1933. Malaria and yellow fever mosquito; life history; larvae and pupae development; elimination of breeding places; draining and filling stagnant pools and swamps; spraying oil; control measures in N. J., Fla., and Panama. Sound version "The Mosquito: Public Enemy", also available. (*50 minutes, silent*)
..... 32, 41

A Most Dangerous Combination
U.S. Department of Agriculture, 1949. How thought and care can prevent nine out of ten forest fires. The dangerous combination is a man, a match, and dry leaves. Revision. (*3 minutes*)
..... 3, 32, 41

Motion Study Applied to Letter Indexing
U.S. Tennessee Valley Authority, 1938. Training TVA files operators in motion economy in indexing. (*11 minutes*)
..... **30, 40**

Mounting and Military Seat
U.S. Department of the Army, 1942. (Horsemanship Series No. 2) Shows action and positions and effects of poor seat on both horse and rider. (*TF 2–601; 30 minutes*)
..... **41**

Mountain Water
U.S. Department of Agriculture, 1950. How western States' water supply for industrial, agricultural, and domestic uses depends on mountains. (*17 minutes, color*)
..... **3, 32, 41**

Movements of Endamoeba Histolytica
U.S. Public Health Service, 1947. (Parasitology Series) Photomicrographs of typical motility and ingested red cells of trophozoite of E. histolytica from clinical case of amoebic dysentery. (*CDC–4–061; 2 minutes, color*)
..... **27**

Muddy Waters
U.S. Department of Agriculture, 1944. Land use and abuse in Southwest; need for soil conservation. Revision. Spanish version "Aguas Turbias" also available. (*9 minutes*)
..... **4, 32, 41**

Multiple Wounds
U.S. Department of the Navy, 1945. (Medicine in Action Series No. 9. Report of a Battle Casualty) Progress of battle casualty with multiple wounds; emergency treatment in field; guillotine amputation of leg; dressing for traction; treatment of minor leg wounds; cleaning and debridgement of facial wounds; grafting of skin; evisceration of damaged eye; enucleation of other eye; reamputation, rehabilitation at school for the blind. (*MN 3726–i; 14 minutes, color*)
..... **41**

Multiplex Mapping. Part 1
U.S. Department of the Army, 1949. How the multiplex method produces accurate topographical maps from aerial photographs. Technical film. (*TF 5–1549; 26 minutes, color*)
..... **41**

Municipal Sewage Treatment Processes
U.S. Public Health Service, 1951. Equipment and processes used to reduce sewage to harmless effluent and solids, thus protecting health and conserving water resources. (*M 6; 13 minutes*)
..... **27, 41**

Museums for School Children
U.S. Department of the Army, 1950. How children's museums provide a stimulating and interesting opportunity for youngsters to broaden their knowledge and understanding of the world. Produced for use in occupied areas. (*CAD; 21 minutes*)
..... **32, 41**

Museum of Science and Industry
U.S. Department of State, 1948. Released through U.S. Office of Education for educational use in the United States. Chicago Museum exhibits: model farm, coal mine, railroad, steel rolling mill, autos, ships, machine tools; physical laws and principles applied to industry illustrated. (*14 minutes*)
..... **32, 41**

My Neighbors and I
U.S. Tennessee Valley Authority in cooperation with the University of Georgia Agriculture Extension Service, 1947. Why and how a farmer's cooperative developed; advantages of cooperative action in terms of individual and community progress; duties and responsibilities of members. (*30 minutes, color*)
..... **30, 40**

My Trip Abroad
U.S. Economic Cooperation Administration, 1950. How Mrs. Roosevelt on her trip to Oslo to unveil a statue of the late President inspected the post-war reconstruction in Norway, Sweden, Fin-

land, Denmark, Holland, France and England; how Marshall Plan aid was used in each country to aid recovery. (*10 minutes*)
..... **24**

NACA Flush Rivet Film
U.S. National Advisory Committee For Aeronautics, 1943. Technical film; title self-explanatory. (*17 minutes, silent*)
..... **28**

The NACA Free-Spinning Wind Tunnel
U.S. National Advisory Committee For Aeronautics, 1936. Technical film; title self-explanatory. (*17 minutes, silent*)
..... **28**

NACA Research
U.S. National Advisory Committee For Aeronautics, 1949. How NACA conducts research in aerodynamics in subsonic, transonic and supersonic speed ranges, aircraft structures, and jet propulsion at Langley Aeronautical Laboratory, Va., Ames Aeronautical Laboratory, Calif., and Lewis Flight Propulsion Laboratory, Ohio. How wind tunnels, rocket-propelled models and airplanes are used as research tools. Flight views of Bell X–1. (*18 minutes, color*)
..... **28**

Naples to Cassino
U.S. Department of the Army, 1948. (Historical Reports Series) Tough fighting encountered in Allied drive from Naples to Cassino, battle of San Pietro, and subsequently the storming of Cassino. (*HR–C–3; 26 minutes*)
..... **12, 32, 41**

National Anthem
U.S. Marine Corps, 1950. Lyrics of Francis Scott Key's anthem illustrated with combat shots of modern warfare; pictorial presentation of full significance of the flag; music presented by Quantico Marine Band. Television film trailer. (*1 minute*)
..... **14, 15**

National Folk Festival. Part 1
U.S. Department of the Army, 1949. Singers, dancers, and musicians at annual festival, at St. Louis, demonstrate folkways of the countries of their origin and keep alive early American folkways. (*CAD 72–1; 23 minutes*)
..... **32, 41**

National Folk Festival. Part 2
U.S. Department of the Army, 1949. Singers, dancers, and musicians at annual festival, at St. Louis, demonstrate folkways of the countries of their origin and keep alive early American folkways. (*CAD 72–2; 25 minutes*)
..... **32, 41**

National Folk Festival. Part 3
U.S. Department of the Army, 1949. Singers, dancers, and musicians at annual festival, at St. Louis, demonstrate folkways of the countries of their origin and keep alive early American folkways. (*CAD 72–3; 26 minutes*)
..... **32, 41**

The National Gallery of Art
U.S. National Gallery of Art in cooperation with U.S. Department of the Navy, 1943. Conducted tour of Gallery; views of works of art in collection; mechanical features of Gallery building. (*17 minutes, b&w with color sequences*)
..... **29**

Native Food
U.S. Department of the Navy, 1945. (Ten Commandments For Health Series) Mac Gillicuddy indulges in native cooked food and unknown, tropical fruits and learns why best food for G.I. in tropics is general mess or K-rations. (*MN 2808–d; 5 minutes*)
..... **41**

Nautical Astronomy
U.S. Department of the Navy, 1942. (Navigation Series) How the celestial coordinates are placed in relation to the earth; how declination, zenith point, nadir line, and the June and September

solstice are used in celestial navigation. College level. (*MN 83–c; 23 minutes*)
..... 7, 41

Naval Air Reserve: Weekend Warrior
U.S. Department of the Navy, 1950. Activities and opportunities in Naval Air Reserve. (*MN 6827–a; 13 minutes*)
..... 14, 41

Naval Chapels in the Pacific
U.S. Department of the Navy, 1948. Work of a Navy chaplain aboard ship and at Pacific island base; various kinds of chapels, including "stick and canvas", thatched roof, and quonset types. (*MN 9153; 12 minutes, color*)
..... 14, 41

Naval Epidemiology
U.S. Department of the Navy, 1946. (Medicine in Action Series. Release No. 10) Brief survey of Navy war on typhus, cholera and malaria. (*MN 3726–l; 10 minutes, color*)
..... 41

Naval Guns at Iwo Jima
U.S. Department of the Navy, 1945. Title self-explanatory. (*MN 5562; 13 minutes*)
..... 41

Naval Photography in Intelligence
U.S. Department of the Navy, 1948. How photography is used in industrial surveys, long-range topographic mapping and wartime naval reconnaissance. Also known as "Photography in Intelligence." (*MN 5348–d; 18 minutes*)
..... 14, 41

Naval Photography in Science
U.S. Department of the Navy, 1948. Uses of photography in scientific research: time-lapse, high-speed, slow-motion, stroboscopic, microscopic, macroscopic, and underwater techniques; view of moon in motion, blood circulation of living brain, earth from 101 miles altitude. Also known as "Photography in Science." (*MN 5348–c; 27 minutes, color*)
..... 14, 32, 41

Navy Chaplain, Photo Report
U.S. Department of the Navy, 1945. Work and service of Navy chaplains. (*MN 5125; 15 minutes*)
..... 41

Navy Materials Handling: Fork Truck
U.S. Department of the Navy, 1943. (Logistics Series) Old and new materials handling methods; how to use 2 and 4 wheel trucks; advantages of hand-lift pallet, fork, and fork-pallet trucks. (*MN 2294–b; 22 minutes*)
..... 41

Navy Materials Handling: The Unit Load
U.S. Department of the Navy, 1944. (Logistics Series) How to use fork trucks, street trailers and semi-trailers to handle unit loads of supplies; speed of palletized unit loads handling compared with hand and bucket brigade methods. (*MN 2294–c; 14 minutes*)
..... 41

Navy Standard Physical Fitness Test
U.S. Department of the Navy, 1944. (Physical Fitness Training Series) How to give physical fitness tests to measure strength, endurance, stamina, and agility. (*MN 2652–a; 20 minutes*)
..... 41

Navy Standard Swimming Tests and Abandoning Ship Drills
U.S. Department of the Navy, 1944. (Physical Fitness Training Series) Various tests to learn each man's swimming ability and classify him in a third, second or first class swimming group; abandoning ship drills. (*MN 2652–b; 18 minutes*)
..... 41

The Navy Yard and Its Work
U.S. Department of the Navy, 1943. General organization and functions of various departments and shops. (*MN 2288; 16 minutes*)
..... 41

The Nazis Strike
U.S. Department of the Army, 1943. (Why We Fight Series) How Germany planned and prepared for war and how she struck her first blows in Austria, Czechoslovakia, and Poland. Includes captured German footage. (*OF 2; 41 minutes*)
..... **32, 41**

Negro Colleges in Wartime
U.S. Office of War Information, Domestic Branch, 1943. Wartime activities in America's Negro colleges, from Army classes in automotive mechanics to scientific experimentation in laboratories especially at Tuskegee Institute, Ala.; Howard U., Wash., D. C.; Prairie View College, Tex.; and Hampton Institute, Va. (*8 minutes*)
..... **32, 41**

The Negro Soldier
U.S. Department of the Army, 1944. Role of the Negro soldier from Crispus Attacks (ex-slave), a hero of the Boston Massacre, to Robert Brooks, the first American soldier to die in World War II; accomplishments of Negro troops. Short version of motion picture, same title, released through U.S. Office of War Information, 1944. (*OF 24; 20 minutes*)
..... **32, 41**

The N.P. Patient
U.S. Department of the Navy, 1944. How to care for and handle neuropsychiatric patients; typical cases and their treatment; some "don'ts"; corpsmen's importance in patients' recovery. Limited to professional medical use. (*MN 1511–r; 27 minutes*)
..... **41**

Neurosurgery: Facial Neuralgias
U.S. Department of the Navy, 1946. How to treat trigeminal and glossopharyngeal neuralgia surgically. (*MN 2230–e; 13 minutes, color*)
..... **41**

Neurosurgery: Management of Spinal Cord Injuries
U.S. Department of the Navy, 1946. How to treat spinal cord injuries by surgery, orthopedics, bladder resection, physiotherapy and exercise. (*MN 2230–b; 11 minutes, color*)
..... **41**

A New Frontier
U.S. Bureau of Indian Affairs, 1941. How a small group of Navajo and Hopi pioneers break with old mores to colonize rich new area reclaimed by irrigation from barren desert of Western Arizona. (*20 minutes, color*)
..... **34**

A New Frontier
U.S. Bureau of Indian Affairs, 1941. Navajo version of motion picture with same title. (*20 minutes, color*)
..... **34**

New Mobile Bakery Equipment
U.S. Department of the Army, 1949. Technical operation of new mobile bakery recently developed by Quartermaster Corps; improved features of manpower economy, time and temperature control, and automatic kneading of dough. (*TF 10–1479; 23 minutes*)
..... **41**

A New Supervisor Takes a Look at His Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Bill Todd, machine tool operator, is made a group leader and his plant superintendent explains to him, through dramatized illustrations, the meaning of working with people instead of machines. (*OE 150; 13 minutes*)
..... **32, 41**

New U.S. Antitank Mines, Trip Flares, and Fuses, September 1944
U.S. Department of the Army, 1944. Nomenclature and functions of M6 and M7 anti-tank mines, M48 and M49 trip flares, and the M2 friction, M3 pull-release, and M5 pressure-release fuzes. (*FB 153; 18 minutes*)
..... **41**

New Wings for Peace
U.S. Department of the Air Force, 1949. Operation of Aviation Cadet program at Randolph Air Force Base; selection of

candidates; training; living conditions during training; and opportunities for graduates. (*SFP 233; 10 minutes*)
..... **11, 32, 41**

Nickel and Nickel Alloys
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1943. Production of nickel and nickel alloys from arrival of copper-nickel matter at plant to shipment of finished sheets; three types of furnaces; hammer shop; machine shop; rolling mill. (*32 minutes*)
..... **17**

Nickel Milling and Smelting
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1940. Production of nickel from rough ore to refined nickel in world's largest nickel smelters, Sudbury District, Ontario. (*17 minutes*)
..... **17**

Nickel Mining
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1950. Mining operations: sampling orebody, sinking shafts, drilling blast holes, blasting, and mucking; underground transportation in mines. (*22 minutes*)
..... **17**

Nickel Mining
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1940. Location of most extensive deposits of nickel-bearing ore, Sudbury District, Ontario; methods of nickel mining, including open pit mining of surface deposits. (*16 minutes*)
..... **17**

Nickel Refining
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1940. Refining of electrolytic nickel, black nickel oxide and nickel shot from nickel sulphide. (*10 minutes*)
..... **17**

Night Piloting: Surface
U.S. Department of the Navy, 1944. (Navigation Series) Procedure of bringing the *U.S.S. Savannah* into harbor at night. (*MN 83–u; 18 minutes*)
..... **41**

Night Vision for Airmen
U.S. Department of the Navy, 1945. Problems faced by flying personnel in seeing at night; anatomical and physiological aspects of eye; reason for and proper techniques of becoming dark adapted; technique for most effective use of eyes at night. (*MN 3462; 19 minutes*)
..... **7, 41**

Niobrara Wildlife Refuge
U.S. Fish and Wildlife Service, 1947. Wildlife of a big game refuge in Nebraska, primarily for bison; views of game and birds; especially of the rare long-horned cattle, so important in early development of West. (*15 minutes, color, silent*)
..... **20**

Normandy Invasion
U.S. Coast Guard, 1944. Combat views of initial assault on Fortress Europe; invasion preparations and follow-through; how American troops established a beachhead. (*19 minutes*)
..... **21**

Norris Dam Construction
U.S. Tennessee Valley Authority, 1941. How Norris Dam on Clinch River was built; semitechnical. Straight photography, animated drawings. (*20 minutes, color, silent*)
..... **30, 40**

Northwest U.S.A.
U.S. Office of War Information, Overseas Branch, 1945. The resources, industries, and people of Oregon and Washington. (*21 minutes*)
..... **32, 41**

Nuremberg
U.S. Department of the Army, 1949. Highlights of Nuremberg War Crimes Trials; charges presented by Justice Robert Jackson of U.S. and jurists of Great Britain, Russia, and France against Goering, Streicher, Funk, Schacht, Jodl, and other Nazi war criminals; factual

pictorial evidence supporting charges. (*M 7596; 75 minutes*)
..... **12**

Nutriculture: Vegetable Growing
U.S. Department of the Army, 1949. How to grow food crops by artificial feeding through use of chemical mixtures in regions of barren soil; equipment and techniques. (*FB 233; 10 minutes*)
..... **41**

NYU Television Workshop
U.S. Department of the Army, 1950. Title self-explanatory. (*CAD 154; 9 minutes*)
..... **41**

Objective Prisoners
U.S. Marine Corps, 1945. Capture of a Japanese soldier; how he should be treated in front lines and sent to rear areas; channels to be followed in interrogation. (*25 minutes, color*)
..... **15**

Ocala
U.S. Department of Agriculture, 1941. Development of Ocala National Forest, an attractive productive area, from what was formerly the "Big Scrub", a rattlesnake infested wasteland of scrub pine. (*10 minutes*)
..... **3, 32, 41**

The Occluded Fronts
U.S. Department of the Navy, 1944. (Aerology Series) How warm and cold front occlusion may produce cyclones; weather problems in flight operation in warm and cold front occlusion. (*MN 119–g; 20 minutes, color*)
..... **7, 32**

Ocular Replacement
U.S. Department of the Navy, 1945. (Prosthesis Series) How to take wax impression; make master cast and wax pattern; duplicate wax pattern in acrylic; create iris; polish scelera; psychological effect of acrylic eye; recovery of facial appearance; restoration of confidence; readjustment of patient. (*MN 4391–b; 17 minutes, color*)
..... **41**

Of Liberal Education
U.S. Department of the Navy, 1950. Student's activities from time he takes aptitude tests for Naval Reserve Officers Training Corps until he graduates with his Navy commission. (*MN 6605; 20 minutes*)
..... **14**

Officer Schools: U.S. Army
U.S. Department of the Army, 1948. Pictorial review of Schools for Officers of the United States Army. (*AFSR 89; 19 minutes*)
..... **41**

Ohio and Its Mineral Resources
U.S. Bureau of Mines in cooperation with Standard Oil Co. (Ohio) and the Sohio Petroleum Co., 1948. Ohio's common minerals; production and use; orientation maps of deposits; rural and city life; educational and recreational facilities; and industrial areas. (*29 minutes, color*)
..... **17**

Ohio Town
U.S. Office of Inter-American Affairs, 1946. One day's life in an Ohio town—starting with newsboy and milkman early in the morning, showing people going to work, the stores opening, workers in a factory, housewives shopping, children at school and play, and closing with the town's families at home in the evening. Focuses upon an election day and the town's citizens voting for mayor. (*19 minutes*)
..... **32, 41**

Ohm's Law
U.S. Department of the Army, 1943. (Electricity and Magnetism Series No. 2) Elements of electricity; electrical energy, its source, transmission, and use; composition of matter, use of force and energy; how Ohm's law functions; explanation of resistance; purpose and use of meters. (*TF 11–1200; 19 minutes*)
..... **32, 41**

Oklahoma and Its Natural Resources
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1947. State

history since Louisiana Purchase, 1803; modern mining, agriculture, industries, educational and religious institutions, cities, transportation, and natural scenery. (*26 minutes*)
..... 17

Oil Larviciding
U.S. Public Health Service, 1945. (Malaria Control Series) Equipment, procedures, value, and disadvantages of oil as a larvicide. Animation. (*CDC–4–017; 12 minutes, color*)
..... 27

The Oilgear Hydraulic Traversing Mechanism: Principles of Operation
U.S. Department of the Army, 1944. How oilgear traverse mechanism operates; path and effectiveness of oil through elevated mechanism. Working model and animation. (*TF 9–1376; 21 minutes*)
..... 41

One Lick Method of Fire Line Construction
U.S. Department of Agriculture, 1938. Training film on progressive method of fire line construction and fire suppression. Former title "One Lick Method of Fighting Forest Fires." (*31 minutes*)
..... 3, 32, 41

On Your Feet
U.S. Public Health Service in cooperation with Melville Shoe Corporation, 1944. Importance of walking correctly and comfortably: good posture; properly fitted shoes; how to walk correctly; how shoes should fit. (*10 minutes*)
..... 32

Once a Marine
U.S. Marine Corps, 1947. Activities of former Marine and high school student in Marine Corps Reserve. (*17 minutes*)
..... 15

One Man Task Force
U.S. Department of the Navy, 1947. Importance and variety of use of long range shore-based air in the Navy. (*MN 5355; 38 minutes*)
..... 14

Only a Bunch of Tools
U.S. Department of Agriculture, 1949. Training film on use of small tools in forest fire fighting. (*28 minutes, color*)
..... 3, 32, 41

Operation Crossroads
U.S. Department of the Navy, 1949. Chronological report of the Able and Baker tests at Bikini. Produced by Joint Army-Navy Task Force One. Revision. (*MN 6817; 26 minutes, color; also b&w.*)
..... 14, 32, 41

Operation of a Forest Nursery
U.S. Department of Agriculture, 1948. Varied jobs of large nursery; seed treatment and storage; germination tests; sowing; care of seedlings; and field planting. (*11 minutes*)
..... 3, 32, 41

Operation of DUKWS: Tactical Use
U.S. Department of the Army, 1948. Tactical use of dukws in operation; launching from shipboard, loading cargo at shipside out in the water; subsequent water to land operation and beaching; reverse procedure also. (*TF 55–1477; 32 minutes*)
..... 41

Operation of Ocean Station Vessel During Search and Rescue
U.S. Coast Guard, 1947. (Search and Rescue Series) Weather duties of Ocean Station Vessels; their relation to all overseas flying; operation of automatic radiobeam by OSV; radar-plotting of crippled land plane enroute to Europe from Bermuda; ditching of plane near OSV; search by patrol plane; rescue by boats from OSV. (*30 minutes, color*)
..... 41

Operation of the Landing Gear of the AT–9
U.S. Department of the Air Force, 1943. Hydraulic principles and mechanical operation of working parts of retractable landing gear system of AT–9 airplane. Animation and pictorial sequences. (*TF 1–725; 8 minutes*)
..... 7

Operation Sandstone
U.S. Atomic Energy Commission, 1950. Intricate and extensive preparations for three test detonations at Eniwetok in the spring of 1948 and views of the detonations. (*18 minutes, color*)
..... **23, 41**

Operation Thunderbolt
U.S. Department of the Army, 1927. Training of U.S. Constabulary Forces to police borders, maintain peace, and indoctrinate German youth in cooperation with CIC and local authorities. (*M 1295; 14 minutes*)
..... **41**

Operation Vittles
U.S. Department of the Air Force, 1948. How blockaded Berlin was supplied by air during Operation Vittles; loading and delivering supplies in good and bad weather; Operation "Little Vittles": candy dropped to Berlin children by handkerchief parachutes. Included in "Korea's New Army: Operation Vittles" released by U.S. Department of the Army. (*SFP 240; 15 minutes*)
..... **11, 32, 41**

Operative Procedures
U.S. Department of the Navy, 1945. (Dentistry. Anterior Acrylic Bridgework No. 1) Close-up photography shows in detail the construction of an acrylic bridge. Direct technique is clearly shown. Special film for dental personnel. B&w version entitled "Dentistry, Acrylic Bridgework, Part 1." (*MN 4352–a; 15 minutes, color, also b&w*)
..... **41**

The Operator and His Job
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 1) Illustrates three responsibilities of the bus operator: safety and comfort of his passengers, maintenance of schedules, and a courteous attitude toward passengers. Supplementary filmstrip, same title, also available. (*OE 491; 12 minutes*)
..... **32, 41**

The Operator and His Passengers
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 2) Importance of good customer relations and ways of handling problems such as expired transfers, people who miss their stops, and getting passengers to move to the rear. Supplementary filmstrip, same title, also available. (*OE 492; 18 minutes*)
..... **32, 41**

The Operator and Safety
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 3) Importance of safety in bus operation; how to operate safely in passing, at intersections, at bus stop zones, and under special weather conditions. Supplementary filmstrip, same title, also available. (*OE 493; 19 minutes*)
..... **32, 41**

Operator's Care and Maintenance of Materials Handling Equipment
U.S. Department of the Army, 1945. "Do's and don't's" for fork lift truck operation and maintenance; rules for their safe operation; driver's daily preventive maintenance service. (*TF 10–2095; 17 minutes*)
..... **41**

Oral Hygiene
U.S. Department of the Navy, 1942. How to clean teeth; massage gums; use dental floss; results of improper brushing; dentifrices and care of toothbrush. (*MN 318; 10 minutes, silent*)
..... **41**

Oral Medications
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to give right amount of right medicine at right time to right man. (*MN 1511–j; 8 minutes*)
..... **41**

Oral Prophylaxis by Dental Technologists
U.S. Department of the Navy, 1945. How to set up dental equipment for an examination, handle and use required instru-

ments, scale, remove calculus, polish, and decide whether or not all calculus has been removed; functioning of gland ducts and formation of accumulations in diagrams. Special film for dental personnel. (*MN 3542; 19 minutes, color*)
..... **41**

Orchard Irrigation
U.S. Department of Agriculture, 1932. Orchard irrigation practices; contouring and terracing; pressure systems; basin irrigation; and overhead or sprinkler system. (*27 minutes, silent*)
..... **32, 41**

Orchids
U.S. Coordinator of Inter-American Affairs with the cooperation of the National Geographic Society, 1942. Twenty types of orchids and other flora of South and Central America and the conditions under which they grow. (*11 minutes, color*)
..... **32, 41**

Ordnance Service in an Overseas Theater
U.S. Department of the Army, 1946. Ordnance supply, service, maintenance, repairs, salvage, reclamation activities, utilization of personnel, and communications zone operations in CBI Theater. (*M 1255; 37 minutes*)
..... **41**

Orientation: Fade Parallel System and Close-in Procedure
U.S. Department of the Navy, 1945. (Instrument Flight Control Series) How to use fade parallel and close-in parallel methods of radio navigation; advantages. (*MN 1059–ab; 10 minutes*)
..... **7, 41**

Orientation: The 90 Degree System
U.S. Department of the Navy, 1945. (Instrument Flight Control Series) How to use 90° method of Radio Range orientation; effect of wind; how to use in square, open, and closed sectors. (*MN 1059–z; 9 minutes*)
..... **7, 41**

Origin and Synthesis of Plastics Materials
U.S. Office of Education, 1945. (Plastics Series No. 1) Organic origin of plastics and the resemblance of synthetic compounds to natural substances; synthesis of plastics from natural subtances; forms in which plastics are produced; and typical plastics products. Animation. Supplementary filmstrip, same title, also available. (*OE 466; 16 minutes*)
..... **32, 41**

Oscillators
U.S. Department of the Navy, 1945. (Radio Technician Training Series) Oscillation; variations in oscillation; how common and tank circuits function. Animation. (*MN 1540–i; 13 minutes*)
..... **7, 41**

Our Food and Our Health
U.S. Department of the Army, 1948. Proper eating habits as factor in maintaining the individual soldier's health and well being. (*TF 8–1476; 15 minutes, color*)
..... **41**

Our Neighbors Down the Road
U.S. Coordinator of Inter-American Affairs, 1942. Automobile expedition along Pan American Highway from Caracas, Venezuela, to Straits of Magellan, covering 13,000 miles and visiting nine South American capitals, including Santiago, Buenos Aires, and Rio de Janeiro. (*43 minutes, color*)
..... **32, 41**

Our Stand in Korea
U.S. Department of the Army, 1950. Chronological report of Korean crisis from assault on Republic of Korea by North Korean forces, June 24, to July 8, 1950. President Truman's statement of American determination to preserve freedom. (*AFSR 121; 20 minutes*)
..... **12, 32, 41**

Our Town Builds An Airport
U.S. Civil Aeronautics Administration, 1948. How an average community builds its own airport with funds and technical assistance provided by Federal Airport

Act; financial and technical problems of airport planning, design, construction and operation. (*36 minutes, color; also b&w*)
..... **7, 41**

Our White Pine Heritage
U.S. Department of Agriculture, 1948. (White Pine Blister Rust Series) Story of white pines of Northeast States; their economic and scenic value; danger of blister rust and needed controls. (*12 minutes, color*)
..... **1, 32, 41**

Outbreak
U.S. Department of Agriculture, 1949. Documentary history of foot-and-mouth disease from earliest history to Mexican outbreak in 1947; U.S. and Mexican control programs. (*29 minutes, color; also b&w*)
..... **32, 41**

Overhauling Camshaft Assembly and Crankcase Section
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to inspect the camshaft and gear case cover assembly parts; inspect and recondition the crankcase section; measure crankcase bearings; inspect and recondition the remaining parts. Supplementary filmstrip, same title, also available. (*OE 270; 19 minutes*)
..... **32, 41**

Overhauling Crankshaft Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to clean the parts of a disassembled engine; inspect and recondition crankshaft assembly parts; determine clearances and check for out-of-round; and check the clearances against specifications. Supplementary filmstrip, same title, also available. (*OE 269; 19 minutes*)
..... **32, 41**

Overhauling the Carburetor
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to remove the carburetor assembly from the engine; disassemble, clean, inspect, and reassemble the carburetor; check the fuel level; and reinstall the carburetor assembly. Supplementary filmstrip, same title, also available. (*OE 267; 23 minutes*)
..... **32, 41**

Oversea Mission
U.S. Department of the Army, 1946. Duties facing the Armies of Occupation essential to the security of the United States and world peace. (*OF 18; 10 minutes*)
..... **41**

Overtaking at Night
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Correct whistle signals in overtaking situation on ocean and inland waters. (*MN 202–q; 15 minutes, color*)
..... **41**

Overtaking Situation
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Whistle signals for overtaking on ocean, inland waters, and narrow channels. (*MN 202–n; 15 minutes*)
..... **41**

Ovulation, Fertilization, and Early Development of the Mammalian Egg
U.S. Department of Agriculture, 1935. Time-lapse cinematography of ovulation, fertilization, early development of mammalian (rabbit) egg. Sound version "In the Beginning", and short sound version "How Animal Life Begins", also available. (*25 minutes, silent*)
..... **32, 41**

The Oxy-Acetylene Flame: Master of Metals
U.S. Bureau of Mines in cooperation with International Acetylene Association, 1950. Principles of the oxy-acetylene flame and its uses in modern industry; welding, soldering, brazing, treating, and hardening. (*19 minutes, color*)
..... **17**

Oxyacetylene Welding Light Metal
U.S. Office of Education, 1944. (Welding Procedures Series. Oxyacetylene Welding

No. 1) How to assemble a gas welding outfit; adjust gas pressures; adjust the flame; make a butt weld and a T weld in light tubing. Supplementary filmstrip, same title, also available. (*OE 190; 21 minutes*)
..... **32, 41**

Pacific Halibut Fishing
U.S. Fish and Wildlife Service, 1949. (Commercial Fisheries Series No. 6) Method of fishing in North Pacific halibut fishery; work on fishing vessel in fishing grounds off Alaska. (*16 minutes, color*)
..... **20, 32, 41**

Pacific Milk Run
U.S. Marine Corps, 1945. Marine bomber squadrons during Pacific war; recreation; briefing; routine bombing runs (Milk runs); and their importance. (*18 minutes*)
..... **15**

Pacific Pathways
U.S. Department of the Army, 1948. Pictorial review of Pacific campaign under General MacArthur from Australia to Japan. (*AFSR 93; 20 minutes*)
..... **32, 41**

Packing, Stowage and Handling
U.S. Department of the Navy, 1945. (Self-sealing Fuel Cells Series) How to unpack, store crate, and stack self-sealing fuel cells; construct crate for cell; pad and store it. (*MN 4318–b; 5 minutes*)
..... **41**

Painting Ships Bottoms: Hot and Cold Plastic; Anti-Fouling Paint
U.S. Department of the Navy, 1944. Favorable conditions for painting; how to prepare paint; safety measures; advantages of plastic paints. (*MN 2528–b; 10 minutes*)
..... **41**

Painting Ships Bottoms: Sandblasting
U.S. Department of the Navy, 1944. How to set up and use continuous and intermittent sandblast equipment; how operator is clothed. (*MN 2528–a; 10 minutes*)
..... **41**

Pan American Bazaar
U.S. Coordinator of Inter-American Affairs, 1942. Arts and crafts of southern republics as displayed in an exhibition at Macy's, a New York City department store. (*9 minutes, color*)
..... **32, 41**

Paracutin
U.S. Department of the Air Force, 1948. Documentary record of 1946 research expedition to Mexico; scientific observations of volcano; scenes from helicopter over lava flow, crater, and erupting volcano. (*SFP 232; 23 minutes*)
..... **11, 32, 41**

Paraguay
U.S. Coordinator of Inter-American Affairs, 1945. People of Paraguay; their history of warfare; quebracho and mate industries; distinctive and vigorous Indian culture of the country. (*17 minutes*)
..... **32, 41**

Paratroops
U.S. Office of War Information, Domestic Branch, 1943. Training given soldiers of the sky including para-ski-troops in how to jump, fall, guide a 'chute, land, and come up fighting. (*9 minutes*)
..... **32, 41**

Paris Green Larviciding
U.S. Public Health Service, 1945. (Malaria Control Series) Equipment, procedures, and checks of effectiveness in using Paris green as a larvicide. Animation. (*CDC 4–018; 11 minutes, color*)
..... **27**

Pass in Review
U.S. Department of the Army, 1949. How U.S. Army works for national security; recent events in airborne, amphibious, and cold weather training; Army's role in European and Pacific occupation. (*M 7552; 10 minutes*)
..... **12, 41**

Passengers, Driving Hazards, Safety
U.S. Office of Education, 1945. (Automotive Series. School Bus Operation No. 2) Driver's responsibility for the safety of child passengers; safe driving habits and safety in handling children getting on and off the bus. Supplementary filmstrip, same title, also available. (*OE 495; 14 minutes*)
..... **32, 41**

Patagonian Playground
U.S. Coordinator of Inter-American Affairs, 1942. How Argentines enjoy their summers at the fashionable resort Nahuel Huapi Park on the eastern slope of the Andes. (*10 minutes, color*)
..... **32, 41**

Patching Fabric
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to cut out and prepare the damaged area; prepare, dope, ribstitch, and finish a patch. Supplementary filmstrip, same title, also available. (*OE 250; 22 minutes*)
..... **32, 41**

Patching Plywood
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to splay the edge of a hole; prepare and apply a splayed patch; make a flush or plug-type patch; make a frame or doubler; and apply a flush patch. Supplementary filmstrip, same title, also available. (*OE 249; 26 minutes*)
..... **32, 41**

The Pathology of Schistosomiasis Mansoni
U.S. Public Health Service, 1948. (Schistosomiasis Series) Ova deposition, walling off of ova primarily in colon and rectum, liver and lung; pathology of chronic schistosomiasis: Fibrosis of cirrhosis of the liver and lung fibrosis with right heart failure. (*CDC 4-068; 2 minutes*)
..... **27**

Patzcuaro
U.S. Coordinator of Inter-American Affairs with cooperation of Tourist Department of Mexico and Mexican Tourist Bureau, 1943. Villages, daily life, and fiestas of Tarascan Indians on Lake Patzcuaro. (*11 minutes, color*)
..... **32, 41**

Paul Bunyan Had a Son
U.S. Department of Agriculture, 1948. (White Pine Blister Rust Series) Story of white pine blister rust in North Central States; Paul Bunyan's son John, symbol of conservation, rescues white pines from depletion; measures to protect them from disease. (*13 minutes, color*)
..... **1, 32, 41**

Penicillin and Venereal Disease
U.S. Public Health Service, 1946. Use of penicillin in the treatment of venereal diseases. Venereal disease section of longer motion picture entitled "Penicillin In Medicine and Surgery" of E. R. Squibb. For medical, nursing and allied professional personnel. (*8 minutes, color*)
..... **26**

The Pennsylvania Pilot Study
U.S. Bureau of Public Roads, 1948. How varying conditions of load, road, and grade affect performance of heavy motor-vehicles. Tests conducted on Pennsylvania Turnpike and parallel route by U.S. Bureau of Roads in cooperation with Committee on Economics of Motor Vehicle Size and Weight of Highway Research Board and allied organizations. (*25 minutes, color*)
..... **6**

People of Two Worlds
U.S. Coordinator of Inter-American Affairs, 1942. Mayan ruins of Yucatan; daily life of ancient and modern Mayan Indians; Lenten house party; native dance Jarana. (*10 minutes, color*)
..... **32, 41**

People of Venafro
U.S. Economic Cooperation Administration, 1950. How a vast land reclamation project to dam the Volturno River, financed by E.R.P. and carried out by the people of Venafro, will increase farm acreage; better crop yield, and

improve living standards of entire region, long the poorest, most backward section of southern Italy. (*12 minutes*)
..... 24

Perforación Micrométrica
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabajo de taller mecánnico. Usos del tomo de precisión) Spanish version of "Boring to Close Tolerances". Portuguese version "Perfuração Micrometrica" also available. (*OE 59–Span; 17 minutes*)
..... 41

Perfuração Micrométrica
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabalho de Oficina Mecânica. Usos Do Tômo de Precisâo) Portguese version of "Boring to Close Tolerances." Spanish version "Perforación Micrometrica" also available. (*OE 59–Port.; 17 minutes*)
..... 41

The Periodic Check-Up
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 4) Tuning up the engine, servicing the brake system, inspecting the steering system, chassis, and body. Supplementary filmstrip, same title, also available. (*OE 489; 18 minutes*)
..... 32, 41

Periodic Functions
U.S. Department of the Navy, 1945. (Radio Technician Training Series) Periodic functions; how to graph sine angles; relations of sine waves to amount of voltage produced by generator; necessity of correct phasing of generators to produce maximum voltage. (*MN 1540–o; 18 minutes*)
..... 7, 41

Periodic Inspection: Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Importance and meaning of thoroughness in performing a periodic inspection, showing a complete detailed inspection of an aileron as an example. Supplementary filmstrip, same title, also available. (*OE 282; 17 minutes*)
..... 7, 32, 41

Periodic Inspection: Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) How to inspect the general condition of an engine; examine internal parts; check ignition and fuel system; examine the propeller; and prepare an engine for run-up. Supplementary filmstrip, same title, also available. (*OE 283; 13 minutes*)
..... 7, 32, 41

Periodontia
U.S. Department of the Navy, 1948. Preoperative preparation of patient, instruments required, anesthesia, operative routine, and postoperative treatment. Technical film for dental personnel. (*MN 5370; 18 minutes, color*)
..... 41

Perishable: Rush
U.S. Department of the Air Force, 1945. How Air Force evacuated wounded men from Pacific to their hometowns and hospitals in the U.S.A. (*SFP 215; 20 minutes*)
..... 11

Personal Cleanliness
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) Mac Gillicuddy, hard at work performing his assigned menial tasks, is too tired for his scrubdown; natives finally bathe him a la kettle style. Slapstick animation. (*MN 2808–f; 4 minutes*)
..... 41

Peru
U.S. Coordinator of Inter-American Affairs, 1945. Modern social and economic life of Peru; attempts to meet current problems of health, poverty, race relationships, and national economic conditions; views of jungle and vestiges of Inca culture. (*21 minutes*)
..... 32, 41

Peru's Coastal Region
U.S. Coordinator of Inter-American Affairs, 1943. Peru's Pacific coastal plain: cities, agriculture, and life of people; archeological specimens; modern art. (*11 minutes, color*)
..... **32, 41**

La Pesta Alada
U.S. Coordinator of Inter-American Affairs, 1943. Spanish version of "Winged Scourge". Portuguese version "Malaria: Guerra Ao Mosquito", also available. (*10 minutes, color*)
..... **37**

Petroleum and Its Uses
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1943. Principal everyday industrial and home uses of petroleum products. Production of petroleum products. (*42 minutes*)
..... **17**

The Photographer
U.S. Department of State, 1948. Life and work of Edward Weston; cultural and artistic values of photography; subject selection, composition, developing; views of geographic features of California. Released through U.S. Office of Education for educational use in the United States. (*30 minutes*)
..... **32, 41**

Photos and Photomaps
U.S. Department of the Army, 1945. (Basic Map Reading Series No. 5) How to identify terrain features on photo maps by size, shape, tone, shadow, and relation to relative objects. (*TF 21–2075; 22 minutes*)
..... **41**

Physical Examination for Navy Flying Personnel. Part 1
U.S. Department of the Navy, 1943. How to use instruments in making associated parallel movement, reaction to light, visual acuity, depth perception, muscle balance, accommodation, color, and visual field eye tests. (*MN 2396–a; 19 minutes*)
..... **41**

Physical Examination for Navy Flying Personnel. Part 2
U.S. Department of the Navy, 1943. How to give nose, throat, and ear test, dental, height, weight, and chest check; coordination and exercise tests based on cardiovascular system; standing and recumbent blood test; psychology test. (*MN 2396–b; 17 minutes*)
..... **41**

Physical Fitness for Waves: Make-up from the Neck Down
U.S. Department of the Navy, 1944. Physical fitness program to persuade Waves to exercise; value of sports; how planned exercises whip figure into shape; figure fixers: Jumping Jack, Bounce and Stretch, Heel Balance, Windmill, Flip Flop, Criss Cross, Bounce and Curl, and the Down and Out. (*MN 2651; 19 minutes*)
..... **41**

Physical Fitness Program for the U.S. Navy
U.S. Department of the Navy, 1942. Exercise for naval trainees; correlation with future varied duties afloat. (*MN 1138; 25 minutes*)
..... **41**

Physical Medicine Rehabilitation for NP Patients
U.S. Veterans' Administration, 1950. How physical medicine is used in rehabilitation of neuropsychiatric patients in VA hospitals. For professional personnel and medical students. (*20 minutes*)
..... **31**

Physical Therapy Procedures for TB Patients
U.S. Veterans' Administration, 1950. How various physical therapy procedures are used for TB patients in VA hospital. For professional personnel and medical students. (*20 minutes*)
..... **31**

Physiology of High Altitude Flying
U.S. Department of the Air Force, 1942. How an impairment of faculties is caused by lack of oxygen; how to use several

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different types of high-altitude dress; and what happens in aerombolism and anoxia. (*TF 1–313; 35 minutes*)
..... 7

Piloting: Surface. Parts 1 and 2
U.S. Department of the Navy, 1943. (Navigation Series) Importance of accurate piloting; use of the bearing circle, compass repeater, and alidade in securing bearings. (*MN 83–h; 16 minutes*)
..... 41

Pine Ways to Profit
U.S. Department of Agriculture, 1935. New industrial uses of pine; improving yield and quality of trees for forest products; dangers of old custom of woods burning; making paper from pine pulp; and distilling turpentine. (*20 minutes*)
..... 3, 32, 41

The Pioneer Bubble Sextant, Mark V: Air. Part 1
U.S. Department of the Navy, 1944. (Navigation Series) How to use pioneer bubble sextant with and without bubble horizon and without averaging device; optical and bubble horizon systems; how to read scale. (*MN 83–ab; 15 minutes*)
..... 41

The Pioneer Bubble Sextant, Mark V: Air. Part 2: Averaging Device, Adjustments, and Practical Use
U.S. Department of the Navy, 1944. (Navigation Series) How to use instrument with averaging device; necessary checks and adjustments; practical use for sun and star observations. (*MN 83–ac; 15 minutes*)
..... 41

Pipe and Tube Manufacture
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940. (The Making and Shaping of Steel Series) Converting hot billets into seamless tubes and flatrolled-steel strips into butt-welded pipes; detailed animated diagram of cold drawing; testing, storing, and transporting pipes; use in oil derrick. (*15 minutes, silent*)
..... 17

Pipe Fabrication with Jigs
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 7) Purpose of the jig; laying out and assembling targets for a jig; setting targets and hangers using a pipe section as a template; how to fabricate pipe on the jig. Supplementary filmstrip, same title, also available. (*OE 122; 22 minutes*)
..... 32, 41

Piston and Liner Removal
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engine Series. Disassembly) How to remove connecting rod bearing, fork rod piston assembly, blade rod piston assembly, and the opposite liners. (*MN 3708–b; 12 minutes*)
..... 41

Pistons and Rods
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P. Benchwork) How to disassemble, clean, inspect, and reassemble pistons and connecting rods. (*MN 3691–i; 17 minutes*)
..... 41

Pitch Buttoning and Blocking: Spherical Surfaces
U.S. Office of Education, with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) How to warm lenses and pitch for buttoning; apply pitch to warm lenses; fit form tool on lens surface; block lenses in metal sheet preparatory to fine grinding. Animation. Supplementary filmstrip, same title, also available. (*OE 182; 30 minutes*)
..... 32, 41

A Place For You
U.S. Marine Corps, 1951. Answers to the six questions asked most often in Marine recruiting stations. Television film trailer. (*1 minute*)
..... 15

Placing Sliding Ways
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Preparation

for Stern Launching) How to place sliding ways for a stern launching. (*MN 2341–d; 19 minutes*)
..... 41

Placing the Right Man on the Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Dramatized cases of five different workers, unsatisfactory in particular jobs, who are reassigned to other jobs more suitable to their abilities and capacities. (*OE 156; 13 minutes*)
..... 32, 41

Plague Control
U.S. Department of the Navy, 1945. Clinical types of plague; environment in which plague flourishes; rat control measures to combat spread of plague in rats and men. (*MN 4049; 21 minutes, color*)
..... 41

Plan for Peace
U.S. Department of the Army, 1947. Necessity of a military training program; overall plan and specific features. Short version, same title, also available. (*M 1324; 18 minutes*)
..... 41

Plan for Peace
U.S. Department of the Army, 1947. Short version of previous film. (*M 1327; 11 minutes*)
..... 41

Plain Indexing and Cutting a Spur Gear
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Milling Machine No. 4) Elements of spur gear teeth; principles of the dividing head; use of standard indexing plates; and how to mill gear teeth to a specified depth. Supplementary filmstrip, same title, also available. (*OE 15; 26 minutes*)
..... 32, 41

A Plane Is Born
U.S. Civil Aeronautics Administration, 1949. How Civil Aeronautics Administration and aircraft manufacturers work together in approving a new type of aircraft. (*19 minutes*)
..... 7, 41

Planing a Dovetail Slide
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Planer No. 2) How to set up the workpiece, cutting tools, and machine; make rough and finish cuts in the clearance slot; and make angle cuts. Supplementary filmstrip, same title, also available. (*OE 67; 28 minutes*)
..... 32, 41

Planing a Flat Surface
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Planer No. 1) Function of a planer; how to mount the workpiece; set the tool and table for the cut; make a first and second roughing cut and a first and second finishing cut. Supplementary filmstrip, same title, also available. (*OE 66; 22 minutes*)
..... 32, 41

Planing Rough Surfaces to Dimensions
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on a Single Face Surfacer No. 1) How to adjust the table for desired thickness; set feed rolls for proper speed; feed with the grain; surface short pieces and glued stock. Supplementary filmstrip, same title, also available. (*OE 301; 17 minutes*)
..... 32, 41

Planning and Laying Out Work
U.S. Office of Education, 1944. (Problems in Supervision Series) Jeff Harris, plant supervisor, talks to his son, Jimmy, who has built a boat in the basement too large to go through the door, about the necessity for planning a job in advance; and recounts several illustrative experiences at the plant. (*OE 151; 10 minutes*)
..... 32, 41

Planning for Good Eating
U.S. Institute of Inter-American Affairs, 1946. (Health for the Americas Series) Why man needs a variety of foods to be

healthy and how the variety needed can be grown on a small plot of land. Animated cartoon. Portuguese version "E Facil Comer Bem" and Spanish version "Es Facil Comer Bien" also available. (*8 minutes, color*)

..... **32, 37**

Plastic Repair of a Cheek and Lip

U.S. Department of the Navy, 1946. How to graft skin flap from forehead over disfiguring scar on cheek; flap from neck to form upper lip; preparatory operation grafting; and severing of flap. (*MN 6485; 10 minutes, color*)

..... **41**

Plastic and Reconstruction Surgery of the Hand

U.S. Department of the Navy, 1946. Principles of traumatic and late reconstructive surgery of the hand; how to study anatomy involved; standardize operating procedure; incise with natural folds of hand; dissect in bloodless field. (*MN 6128–b; 34 minutes, color*)

..... **41**

Plastic Surgery of the Hand

U.S. Department of the Navy, 1945. Cases of traumatic surgery of hand and elective surgery in hand reconstruction; how to restore function. (*MN 6128–a; 12 minutes, color*)

..... **41**

The Platoon

U.S. Department of the Navy, 1942. (Close Order Drill Series) Formation of platoon and company; how each executes various military drills. (*MN 201–b; 26 minutes*)

..... **41**

Pliers and Screwdrivers

U.S. Department of the Army, 1943. (Care and Use of Hand Tools Series No. 2) Pliers and screwdrivers; proper use; safety precautions; protection of tools. (*TF 9–2027; 14 minutes*)

..... **32, 41**

Plunge Cut Grinding

U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-Type Grinder No. 4) How to mount a bushing on a mandrel; set a dial snap gage for the production grinding of bushings; rough- and finish-grind a bushing; and the importance of rhythm in production grinding. Supplementary filmstrip, same title, also available. (*OE 83; 15 minutes*)

..... **32, 41**

Point Control of Traffic

U.S. Department of the Army, 1948. How to direct traffic through intersections and control two-way traffic over one lane stretches and bridges. (*TF 19–1486; 24 minutes*)

..... **41**

Poising Balance Wheels

U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 11) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)

..... **31**

Pole Drainage

U.S. Public Health Service, 1946. (Malaria Control Series) How to eliminate quagmires and other marshy mosquito-breeding areas through pole drainage returning the land to productivity. Animation. (*CDC 4–033; 7 minutes, color*)

..... **27**

A Policlinica Da Sua Cidade

U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Your Health Center." Spanish version "El Centro de Salubridad" also available. (*8 minutes, color*)

..... **37**

Polishing: Spherical Surfaces

U.S. Office of Education, with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) How to make concave or convex polishing shell; trim polishing shell to size and cut breathers; set up and use polishing machine; make Newton's ring check with test glass; correct for hollow condition and high condition. Supplemen-

tary filmstrip, same title, also available. (*OE 184; 28 minutes*)
..... **32, 41**

Porcelain Protected Surface Wiring
U.S. Office of Education, 1944. (Electrical Work Series. Wiring) How to make an electrical entrance to a building; install wiring and porcelain fittings; support and insulate wires; prepare and connect wires for service. Supplementary filmstrip, same title, also available. (*OE 376; 19 minutes*)
..... **32, 41**

Pork on the Farm
U.S. Department of Agriculture, 1940. Hog production for home consumption; techniques of killing, dressing, handling to avoid spoilage; cutting; curing; advantages of cold-storage service. (*21 minutes*)
..... **32, 41**

Portable Water Purification Unit M1940
U.S. Department of the Army, 1942. Setting up at water point; pump section; filling chemical feed tanks and chlorine feed bags. (*TF 5–237; 20 minutes*)
..... **41**

Position Finding on the Earth
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Geographical position, Greenwich hour angle, local hour angle, relationship of hour angle to longitude, zenith distance and its relationship to altitude, circle of position, line of position, fix, relation of assumed to actual position, and intercept. (*TF 1–204; 15 minutes*)
..... **7, 32, 41**

Positions
U.S. Department of the Army, 1943. (Rifle Marksmanship with the M–1 Rifle, Preparatory Training Series No. 2) Correct manner of firing the M–1 rifle: prone, sitting, kneeling, standing, or off hand; use of the rifle sling, and proper loop adjustments from the firing positions. (*TF 7–652; 27 minutes*)
..... **41**

Post Operative Care
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to make anesthetic bed; move patient from stretcher to bed; care for while arousing from anesthetic. (*MN 1511–h; 12 minutes*)
..... **41**

Poultry: a Billion Dollar Industry
U.S. Department of Agriculture, 1939. U.S. poultry industry; large and small poultry farms; hatcheries; markets; cold-storage plants; dressing poultry; liquid-egg business; education and consumer aspects. First prize, International Exposition of Agricultural Films, Rome, May 20–27, 1940. (*28 minutes*)
..... **32, 41**

Powder Metallurgy. Part 1: Principles and Uses
U.S. Office of Education, 1945. (Engineering Series) Principles of powder metallurgy—powder, pressure, heat; major industrial applications of powder metallurgy; laboratory process of combining silver and nickel powders. Animation. (*OE 346; 19 minutes*)
..... **32, 41**

Powder Metallurgy. Part 2: Manufacture of Porous Bronze Bearings
U.S. Office of Education, 1945. (Engineering Series) Manufacturing process by which metal powders are fabricated into porous bronze bearings and impregnated with oil. (*OE 347; 15 minutes*)
..... **32, 41**

Power and the Land
U.S. Department of Agriculture, 1940. Typical family-size farm before and after electrification; formation of electrical cooperative by farm group; savings and benefits of electricity. (*39 minutes*)
..... **32, 41**

Power Bending Conduit
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to assemble and operate a floor bender and a portable bender; make a 45 degree

bend in 3 inch conduit; make an offset in 1½ inch conduit; make an offset in conduit already installed. Animation. Supplementary filmstrip, same title, also available. (*OE 382; 17 minutes*)
..... **32, 41**

Power for Defense
U.S. Office of Emergency Management, 1940. Power resources in Tennessee Valley and how used to run factories for defense materials, arms, munitions, etc. (*11 minutes*)
..... **32, 41**

Power for Peace
U.S. Department of Defense, 1950. How businessmen through joint Civilian Orientation Conference, learn needs of Armed Forces and how the Armed Forces, industry and individual citizens provide power for peace. (*20 minutes*)
..... **11, 12, 14, 32, 41**

The Power Within
U.S. Bureau of Mines in cooperation with General Motors Corp., 1949. Principles of the internal combustion engine; assembly of a modern automobile engine; nature and function of the various parts. Trick photography and animation. (*20 minutes*)
..... **17**

Powerhead
U.S. Department of the Navy, 1943. (Diesel Engine Governors Series. Marquette Governor No. 4) Adjustment of speeder spring; construction and operation of powerhead; speed-setting control of governor. (*MN 2598–d; 5 minutes*)
..... **41**

Preamble to Peace
U.S. Department of the Army, 1948. U.S. Army's Constitutional mission; training measures for action should an emergency occur; research and development programs; place in present-day activities. Personal message by Gen. Omar Bradley. (*M 1412; 10 minutes*)
..... **12, 41**

Precision Gage Blocks
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 6) How to calculate a stack of gage blocks; clean and assemble blocks; various uses of gage blocks. Supplementary filmstrip, same title, also available. (*OE 49; 18 minutes*)
..... **32, 41**

Precision Spin
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to execute precision spin and recovery; avoid errors in controlled spirals. "Joe Student" film. (*MN 1325–e; 12 minutes*)
..... **7, 41**

Preface to a Life
U.S. Public Health Service in cooperation with U.S. Office of Education, 1950. Parental influence on child's developing personality as illustrated by series of episodes. Effect of 3 different parental attitudes toward child: oversolicitous mother; overly demanding father; and acceptance as an individual. For parents and young married couples. (*29 minutes*)
..... **26, 32, 41**

Preflight Inspection: Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Necessity for careful and thorough inspection; how to use the "circle method" to inspect landing gear, wings, fuselage, tail surfaces, cabins, controls, and instruments. Supplementary filmstrip, same title, also available. (*OE 280; 17 minutes*)
..... **7, 32, 41**

Preflight Inspection: Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Importance of continuous preventive maintenance in keeping an aircraft engine airworthy; how to conduct an engine run-up. Supplementary filmstrip, same title, also available. (*OE 281; 23 minutes*)
..... **7, 32, 41**

Preliminary and Emergency
U.S. Department of the Navy, 1944. (Fireroom Operation Series) Preliminary and checkup steps in lighting-off a cold boiler with no available steam supply;

emergency measures. (*MN 2356–g; 12 minutes*)
..... 41

Prelude to Victory
U.S. Department of the Navy, 1946. Historical documentary of the Eighth Fleet in World War II from shores of North Africa to the Italian beaches. (*MN 9119–d; 40 minutes*)
..... 14

Prelude to War
U.S. Department of the Army, 1942. (Why We Fight Series) Forces and reasons leading to World War II: rise of Hitler, Mussolini, and the Japanese Empire; Japanese conquest of Manchuria; and Italian conquest of Ethiopia. Includes scenes from official Italian, German, and Japanese films. (*OF 1; 54 minutes*)
..... 32, 41

Pre-Operative Care
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to prepare operative field for abdominal or bone operation; prepare patient mentally. (*MN 1511–k; 15 minutes*)
..... 41

Preparation and Staining of Blood Films
U.S. Public Health Service, 1946. (Malaria Control Series) Various staining procedures for preparing technically perfect thick and thin blood films for use by technicians in ascertaining presence of malaria parasites. Includes Giemsa and Wright's stains. (*CDC–4–007; 17 minutes, color*)
..... 27, 41

Preparation and Use of Human Plasma
U.S. Department of the Navy, 1945. How whole blood is prepared; sent to processing plant; plasma and red corpuscles separated; pooled; frozen in an alcohol bath; dried; and packed for shipment to combat areas; how corpsman in amphibious landing prepares and administers blood plasma to a wounded Marine. (*MN 3543; 33 minutes, color*)
..... 41

Preparation for Docking with Keel and Bilge Blocks
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Graving dock; placement of keel and bilge blocks according to docking plan; careful planning and double-check of calculations by Docking officer and Dockmaster to insure safe placement of ship. (*MN 2352–a; 15 minutes*)
..... 41

Preparation for Stern Launching, DD445 Class
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Constructing ground ways, fitting sliding ways; hooking after poppets and fore poppets; installing internal shoring, dog shores, and trigger, and rigging anchor; nomenclature of job; operations to prepare ship for launching. (*MN 2351–a; 25 minutes*)
..... 41

Preparation of Aircraft Engines for Storage: Preservation
U.S. Department of the Air Force, 1942. Packing Pratt & Whitney 1830 engine in sealing envelope and crating for storage: clear fuel run; dehydration and packing. (*TF 1–728; 25 minutes*)
..... 7

Preparation of Aircraft Engines for Storage: Retreatment and Preparation for Service
U.S. Department of the Air Force, 1942. Checking humidity indicators or engines in storage; installing new dehydration bags and plugs where unsafe condition is noted; removing engine from crate and envelope; and preparing for service. (*TF 1–729; 13 minutes*)
..... 7

Preparation of Teachers
U.S. Department of State, 1948. Teacher education at Ball State Teachers College, Muncie, Ind.; how to understand children; provide for individual pupil differences; develop desirable personality

traits in teachers. Released through U.S. Office of Education for educational use in the United States. (*20 minutes*)
..... **32, 41**

Preparing a Cupola for Charging
U.S. Office of Education, 1945. (Foundry Work Series. Melting Practice) How to recognize the end of a heat; procedures for dropping bottom and for preparing a cupola for its next heat. Supplementary filmstrip, same title, also available. (*OE 436; 21 minutes*)
..... **32, 41**

Preparing and Setting a Keelblock and Bottom Cradle
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 1) Use of base line, vertical centerline, buttock lines, waterlines, and frame lines in checking dimensions during ship construction. How to lay a keelblock; use templates to make spauls; erect a ship cradle. Animation. Supplementary filmstrip, same title, also available. (*OE 24; 18 minutes*)
..... **32, 41**

Preparing Old Buildings for Wiring
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to plan the wiring paths, visualizing the obstructions, and prepare the paths for the wiring runs. Animation. Supplementary filmstrip, same title, also available. (*OE 378; 21 minutes*)
..... **32, 41**

Preparing the Plane for Flight
U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How crew prepares plane for flight: loading ammunition and supplies; starting and testing engines. (*MN 1338–b; 23 minutes*)
..... **41**

Preparing To Irrigate
U.S. Department of Agriculture, 1932. Machinery for constructing irrigation ditches: Fresno, V-shaped crowder, wooden float disk ridger, and grader; maintenance machinery: weed machine, trash remover, and dredger. (*16 minutes, silent*)
..... **32, 41**

Prescription for Work
U.S. Veterans' Administration, 1949. Work of physical therapy rehabilitation program; how work capabilities of patients with physical disabilities are discovered through light mechanics procedure. (*10 minutes*)
..... **31**

Preservation of Bacteria by Desiccation in Vacuo
U.S. Public Health Service, 1949. Desiccation in vacuo, a technique easily accomplished and both enduring and dependable as a method of preservation for most bacteria. (*CDC–4–102; 11 minutes*)
..... **27, 41**

Prevent Dysentery
U.S. Institute of Inter-American Affairs, 1947. How dysentery spreads and how it can be prevented from spreading. Why community protection from dysentery lies in a sanitary disposal of waste, protection of food, purification of water, control of flies, and good personal habits of all the people. Portuguese version "Disenteria" and Spanish version "Disenteria" also available. (*7 minutes, color*)
..... **32, 37**

Price of Rendova
U.S. Department of the Army, 1944. Combat operations in capture of Rendova; establishment of beachhead; invasion of jungle; counterattack by Japanese dive bombers; men and materiel destroyed. (*M 926; 11 minutes*)
..... **32, 41**

Pride of Main Street
U.S. Marine Corps, 1950. Story of one Marine Corps Reserve Unit. (*17 minutes*)
..... **15**

Primary Circulation
U.S. Department of the Air Force, 1940. (Modern Weather Series. Theory and Structure of a Storm.) Theory of convection due to heating and comparison of convection in earth's atmosphere with liquid in a tank. (*TF 1–133; 19 minutes*)
..... **7, 32, 41**

Principal Dimensions, Reference Surfaces and Tolerances
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 3) Relationship between the blueprint and a rough and finished casting; how to use a blueprint in selecting reference surfaces; interpret tolerances; and check the accuracy of finished work. Supplementary filmstrip, same title, also available. (*OE 53; 12 minutes*)
..... **32, 41**

Principle of Moments
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Concept of moment of a force; formula for finding its numerical value; principle of moments as applied to all coplanar force systems. Supplementary filmstrip, same title, also available. (*OE 362; 23 minutes*)
..... **32, 41**

Principles and Types
U.S. Department of the Air Force, 1942. (Airplane Propellers Series) Varying sizes and number of blades on different aircraft; why a propeller is twisted; why its angle is changed; functions of fixed pitch; Hamilton Constant Speed, Hamilton Hydromatic, Curtiss Electric, and Aeroproducts propellers. (*TF 1-246; 17 minutes*)
..... **7, 32, 41**

Principles of Dry Friction
U.S. Office of Education, 1945. (Engineering Series) Friction; advantages and disadvantages; forces involved; static and kinetic friction; calculation of the co-efficients of static and kinetic friction. Supplementary filmstrip, same title, also available. (*OE 365; 17 minutes*)
..... **32, 41**

Principles of Gas-Filled Tubes
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 4) Theory of ionization applied to gas-filled tubes; control of current in circuits employing gas-filled tubes; use of the gas diode as a rectifier; application of the gas triode as a grid-controlled rectifier. Animation. Supplementary filmstrip, same title, also available. (*OE 353; 15 minutes*)
..... **32, 41**

Principles of Gearing: An Introduction
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Friction gears and toothed gears; law of gearing, positive driving, involute profiles, pressure angle, cycloid profiles, velocity rates, and circular pitch. Supplementary filmstrip, same title, also available. (*OE 363; 18 minutes*)
..... **32, 41**

Principles of Lubrication
U.S. Office of Education, 1945. (Engineering Series) Why lubrication is necessary; physical properties of lubricants; lubricants in action; viscosity; basic lubricant requirements. Animation. Supplementary filmstrip, same title, also available. (*OE 355; 16 minutes*)
..... **32, 41**

Principles of Operation
U.S. Department of the Air Force, 1942. (Airplane Hydraulic Brakes Series) Need for brakes on modern airplanes; basic principles of the brake; independent and integral systems; operation in the airplane. (*TF 1-162; 20 minutes*)
..... **7, 32, 41**

Principles of Operation of the Generator Regulator
U.S. Department of the Army, 1949. (Automotive Electricity for Military Vehicles Series No. 5) Function and importance of generator regulator; how two types of electromagnetic switches work in generator regulator. (*TF 9-1559; 13 minutes*)
..... **41**

Principles of Refrigeration
U.S. Office of Education, 1944. (Engineering Series) Basic physics of heat transfer, with refrigeration as a method of heat transfer from the inside of a refrigerator to the outside. Compression and absorption systems. Animation. Sup-

plementary filmstrip, same title, also available. (*OE 360; 20 minutes*)
..... **32, 41**

Principles of the Gyroscope
U.S. Department of the Navy, 1944. (The Gyro Compass Series) Gyroscope's basic principles; rigidity in space and precession; three degrees of freedom of a gyroscope; further study of precession, rigidity, and apparent rotation. (*MN 1792–a; 10 minutes*)
..... **7, 32, 41**

Printing the Positive
U.S. Department of the Navy, 1948. (Fundamentals of Photography Series) Fundamentals of still- and motion picture photography. (*MN 5387; 19 minutes*)
..... **41**

The Prize Calf
U.S. Department of Agriculture, 1939. Care and feeding of prize calf; preparation for show; bathing and grooming the calf. Short version of "Junior Cattlemen." (*6 minutes*)
..... **32, 41**

Produza Mais Alimentos
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Extra Feeding Pays." Spanish version "Comida Abundante para Todos" also available. (*8 minutes, color*)
..... **37**

Pro Patria Vigilans
U.S. Department of the Army, 1951. Varied missions of Signal Corps in World War II; how Joint Signal Assault Companies, consisting of Signal Corps and Navy personnel, established communications on beachheads; new developments including a remote-control bomb employing a television aiming device. (*M 7777; 13 minutes*)
..... **12**

Problems of Peace in Europe
U.S. Department of the Army, 1948. Postwar Europe's political, social, and economic problems and progress; English and Norwegian export trade; modernization of French and Italian agriculture and industry. (*AFSR 97; 20 minutes*)
..... **32, 41**

Problems of Peace in the Americas
U.S. Department of the Army, 1949. How, through cooperation, the Western Hemisphere can be organized to defend international justice and maintain peace. (*AFSR 109; 19 minutes*)
..... **32, 41**

Producing Quality Poultry
U.S. Department of Agriculture, 1939. National poultry improvement plan; mongrel versus R.O.P. flocks; value of stock from pullorum-tested breeding flocks; testing for pullorum disease; hatchery scenes; rigid inspection for healthy chicks. (*10 minutes, silent, color*)
..... **32, 41**

The Production and Processing of Oysters
U.S. Public Health Service, 1948. (Shellfish Sanitation Series) Sanitary procedures of oyster industry from growing area, through handling processes, to shipment to consumer. Schematic diagram of approved shucking and processing plant. Animation. (*CDC–4–073; 16 minutes*)
..... **27, 41**

Production Methods
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) Successful techniques and modern production methods; requirements of a production shop; new production methods; division of labor; visual aids; inspection; and salvage. (*MN 2449–o; 31 minutes*)
..... **41**

Produza Mais Leite
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Better Farming: More Milk." Spanish version "Mas Leche" also available. (*10 minutes, color*)
..... **37**

Project for Tomorrow
U.S. Economic Cooperation Administration, 1950. How ERP sponsored 4–H

clubs have developed among Austrian farm children despite reluctance of older generation; how 12-year old Franzl against his grandfather's wishes raised a calf and developed her into a prize winner. (*20 minutes*)
..... **24**

Protecting a Great City
U.S. Department of the Army, 1950. Flood control work in Kansas City, Missouri. (*20 minutes, color*)
..... **13**

Protecting Electric Equipment from High Impact Shock
U.S. Department of the Navy, 1946. Causes of high impact shock; resulting damages to electrical equipment; preventive maintenance. (*MN 5109; 13 minutes*)
..... **41**

Psychotherapeutic Interviewing. Part 1: Introduction
U.S. Veterans' Administration, 1950. Basic principles of doctor-patient relationship; structure and goals of the interview. Introductory film to series. For professional audiences. (*11 minutes*)
..... **31, 41**

Psychotherapeutic Interviewing. Part 2: Method of Procedure
U.S. Veterans' Administration, 1950. Interview of patient and psychiatrist; analysis of principles and methods; patient-doctor relationship; planning in terms of goals; focusing upon relevant topics; minimal activity by the doctor. For professional audiences. (*32 minutes*)
..... **31, 41**

Psychotherapeutic Interviewing. Part 3: An Approach to Understanding Dynamics
U.S. Veterans' Administration, 1950. Interview of patient and psychiatrist; dynamics of interview analyzed; patient's reactions to certain experiences; meaning of reactions to psychiatrist. For professional audiences. (*21 minutes*)
..... **31, 41**

Puerto Rico
U.S. Department of Defense, 1950. Strategic value of Puerto Rico as a military air and naval base. (*AFSR 122; 22 minutes*)
..... **12, 32, 41**

Pulling and Installing Cable and Packing Terminal Tubes
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 4) How to pull, strap, and straighten cable; prepare cable for pushing and for pulling with a rope; pack terminal tubes. Animation. Supplementary filmstrip, same title, also available. (*OE 113; 16 minutes*)
..... **32, 41**

Purification of Water
U.S. Department of the Army, 1943. Danger of drinking polluted water; methods of purifying water under various conditions. (*TF 8–1174; 19 minutes*)
..... **41**

O Que E A Doenca
U.S. Office of Inter-American Affairs, 1945. (Salud para As Americas) Portuguese version of "What Is Disease?" Spanish version "Que Es Enfermedad?" also available. (*11 minutes, color*)
..... **37**

Que Es Enfermedad?
U.S. Office of Inter-American Affairs, 1945. (Salud para As Americas) Spanish version of "What Is Disease?" Portuguese version "O Que E A Doenca" also available. (*11 minutes, color*)
..... **37**

Quiet Triumph
U.S. Veterans' Administration, 1946. Story of VA's Chaplaincy Service; military background; selection and work of VA chaplains of all faiths. (*15 minutes*)
..... **31**

Quieting a Noisy Refrigerator
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 10) How to check and correct noise caused by high head pressure, or oil-logged evaporator; compressor noises;

motor noises; and noises caused by wear or looseness of parts. Supplementary filmstrip, same title, also available. (*OE 447; 16 minutes*)

..... **32, 41**

Quiz on Lights and Day Signals
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Title self-explanatory. (*MN 202–h; 14 minutes, color*)

..... **41**

Rabbeting and Shaping an Edge on Straight Stock
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 1) Principle of the shaper operation; how to set up the machine for cutting rabbets; cut rabbets; shape a molding. Supplementary filmstrip, same title, also available. (*OE 318; 18 minutes*)

..... **32, 41**

Race Track Patterns. Part 1
U.S. Department of the Navy, 1946. Landing approach problems: effects of wind strength and direction; too wide or sharp turning; how to make 90 degree approach and drift angle correction. (*MN 3474–j; 22 minutes*)

..... **7**

Race Track Patterns. Part 2.
U.S. Department of the Navy, 1946. How to make 180 degree power approach in landing on predetermined spot in field; determine if distance from field is correct; vary attitude of flight and/or power to vary speed and/or rate of descent. (*MN 3474–k; 21 minutes*)

..... **7**

Radar for Navigation
U.S. Coast Guard, 1947. How ships use radar entering harbors. (*10 minutes*)

..... **21**

Radio Aids
U.S. Department of the Air Force, 1942. (Aerial Navigation Series) Operation of radio range and nature of radio beam: cone of silence, false cone, marker, and interpretations of the sounds used in aerial navigation; utilization of weather reports, radio compasses, directional antenna, and automatic compass. (*TF 1–327; 30 minutes*)

..... **7**

Radio Antennas: Creation and Behavior of Radio Waves
U.S. Department of the Air Force, 1942. Electric and magnetic fields; generation of electro-magnetic waves; behavior of radio waves in space; ground wave; reflection and refraction; the ionosphere; and causes of fading. (*TF 1–474; 12 minutes*)

..... **7, 32, 41**

Radio Antennas: Fundamentals of the Antenna
U.S. Department of the Air Force, 1942. Characteristics of various antennas, traveling and standing waves, current and voltage distribution on half wave antenna, quarter wave antenna, transmission lines, current and voltage feeding and trailing antenna. How to tune antenna. (*TF 1–475; 13 minutes*)

..... **7**

The Radio Compass in Flight
U.S. Department of the Air Force, 1943. (Radio Compass Series) How radio compass is utilized in aerial navigation on non-contact, cross-country flight of B–26; operation and function in estimating true course bearings; range estimation, taking bearings, homing on beam, plotting fixes, etc. (*TF 1–769; 20 minutes*)

..... **7**

Radio Location: Siting Radar Equipment
U.S. Department of the Navy, 1943. Basic factors to be considered in siting wide beam type of radar equipment. (*MN 4784–i; 28 minutes*)

..... **7**

The Radio Man Fights
U.S. Department of the Navy, 1944. (Radio Operator Training Series) Course of message from NSS in Washington, D.C., to Guadalcanal, and on to task force flagship; how radio is nerve center of Navy; over-all picture of training and

duties of each radioman. (*MN 2621–a; 7 minutes*)
..... 41

Radio Navigation. Part 2: Bracketing an Unknown Beam
U.S. Department of the Navy, 1945. (Instrument Flight Control Series) How to bracket unknown beam: advantages of system. (*MN 1059–y; 9 minutes*)
..... 7, 41

Radio Operator
U.S. Department of the Air Force, 1943. Soldier's progress through radio operators school and how as a radio operator he saves the lives of his bomber crew when they are forced to ditch their plane. Orientation film. (*TF 1–3310; 20 minutes*)
..... 7

Radio Range Orientation
U.S. Department of the Air Force, 1943. By use of the Link Trainer shows how a pilot can locate himself through use of the radio range and how to bracket its beams or courses. (*TF 1–3402; 20 minutes*)
..... 7

Radio Receivers: Principles of Radio Receivers
U.S. Department of the Air Force, 1942. Principles of typical radio receivers; crystal and tube detectors; radio and audio frequency amplification; superheterodyne circuit. (*TF 1–472; 17 minutes*)
..... 32, 41

Radio Shop Techniques
U.S. Department of the Navy, 1943. (Radio Technician Training Series) Tools used; orthographic projection; how to make a lay-out; saw; file; drill; bend metal; wire; and solder in making regenerative receivers. (*MN 1540–e; 37 minutes*)
..... 41

Radio Transmitters: Principles and Typical Circuits
U.S. Department of the Air Force, 1942. How each part of radio transmitter functions: antenna, simple oscillator, Hartley oscillator circuit, and amplifier; how microphone is connected in circuit. (*TF 1–476; 18 minutes*)
..... 7

Radiotherapy: High Dosage Treatment
U.S. Office of Education, 1945. (Nursing Series) Nature of X-rays, varying degrees of penetration of low-voltage and high-voltage rays, and effect of X-rays upon human tissue; how the nurse technician prepares a patient and administers an X-ray treatment. Supplementary filmstrip, same title, also available. (*OE 411; 17 minutes*)
..... 32, 41

R. 521
U.S. Economic Cooperation Administration, 1950. How E.C.A. funds have helped restore Italy's devastated railroads and equipment to their pre-war level of excellence; trip from Milan to Rome on Italy's latest and fastest express train. Unusual musical score sustains drive of locomotives. (*12 minutes*)
..... 24

Rails, Wheels, and Axles
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940. (The Making and Shaping of Steel Series) Shaping billets into railroad rails; treating for heavy duty heat treatment and end hardening; forging railroad axles; making car wheels; use of wheels on locomotive. (*15 minutes, silent*)
..... 17

Rain on the Plains
U.S. Department of Agriculture, 1944. Causes and effects of wind erosion and dust storms in southern Great Plains; measures to reclaim ruined land; contouring, terracing, strip cropping, sodding, windbreaks, and dams. Revision. (*9 minutes*)
..... 4, 32, 41

Raindrops and Soil Erosion
U.S. Department of Agriculture, 1947. Effect of raindrops upon uncovered soil; erosion problems; factors considered in

determining correct land use and treatment. Revision. (*21 minutes, color*)
..... **4, 32, 41**

Rapid Fire
U.S. Department of the Army, 1943. (Rifle Marksmanship with the M–1 Rifle, Preparatory Training Series No. 4) Explanation of rapid fire, execution from prone, sitting, and kneeling positions. Cadence exercises and exercises in simulated rapid fire by coach and pupil method. Responsibility of coach in training expert riflemen. (*TF 7–1062; 28 minutes*)
..... **41**

Raw Materials
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940. (The Making and Shaping of Steel Series) Producing essential raw materials of steel: mining iron and limestone; making coal into coke; operation of blast furnace in detail with animated drawings. (*15 minutes, silent*)
..... **17**

RCL-Resistance Capacitance. Parts 1 and 2
U.S. Department of the Navy, 1943. (Radio Technician Training Series) Current and voltage in relation to time; voltage and current curves; their relationship; how to measure voltage at source; addition of phase components; effect of impedance at resonance. Also entitled "RCL (Resistance, Capacitance, Inductance)." Supplementary filmstrip, same title, also available. (*MN 1540–c; 34 minutes*)
..... **7, 41**

Reading a Drawing of a Valve Bonnet
U.S. Office of Education, 1944. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 5) How to interpret conventional symbols and tolerance specifications and use the blueprint in planning machine operations. Supplementary filmstrip, same title, also available. (*OE 55; 20 minutes*)
..... **32, 41**

Reading a Three-View Drawing
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 2) How to use a blueprint to visualize the object; interpret a blueprint; and make a tool block according to specifications. Supplementary filmstrip, same title, also available. (*OE 52; 10 minutes*)
..... **32, 41**

Ready for Flight
U.S. Department of the Air Force, 1950. How the mechanics, electricians, grease monkeys, and other maintenance men kept the Berlin Airlift planes ready for flight. (*SFP 247; 14 minutes*)
..... **11, 32, 41**

Realm of the Honeybee
U.S. Department of Agriculture, 1932. Life and work of bees: honey and beeswax production and cross pollination. Close-up photography from government apiary, Somerset, Maryland. (*53 minutes, silent*)
..... **32, 41**

Realm of the Wild
U.S. Department of Agriculture, 1945. Big game, small animals, and birds of U.S. National Forests; need to limit wildlife populations in proportion to productive capacity of the area. (*27 minutes, color*)
..... **3, 32, 41**

Reaming with Straight Hand Reamers
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 4) How to ream straight holes with a straight-fluted reamer, a helical-fluted reamer, and an adjustable-blade reamer. Supplementary filmstrip, same title, also available. (*OE 37; 20 minutes*)
..... **32, 41**

Reaming with Taper Hand Reamers
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 5) How to hand ream a tapered hole through a shaft and collar, and fit a taper pin in the reamed hole. Supplementary filmstrip,

same title, also available. (*OE 38; 15 minutes*)
..... **32, 41**

Rearing and Handling of Anopheline Mosquitoes
U.S. Public Health Service, 1945. (Malaria Control Series) Insectary techniques of U.S. Public Health Service Malaria Research Laboratory, Columbia, S.C., in supplying anopheline mosquitoes to health laboratories studying transmission of foreign types of malaria. (*CDC–4–006; 15 minutes, color*)
..... **27**

Reassembling the Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to reassemble the crankshaft and camshaft assemblies, crankcase section, and gear case cover assembly; reinstall the oil sump; and complete reassembly of the engine. Supplementary filmstrip, same title, also available. (*OE 271; 22 minutes*)
..... **32, 41**

Reassembly: 8-268A Engine
U.S. Department of the Navy, 1943. (Progressive Maintenance Diesel Propulsion Engine Series) How to reassemble General Motors 8–268A diesel engine. (*MN 209–b; 24 minutes*)
..... **41**

Reassembly: Head
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to install injector and controls; test injector; adjust injector; install valve bridges and rocker shaft, and assemble and time injector and exhaust. (*MN 3707–d; 26 minutes*)
..... **41**

Reassembly: Liner and Piston
U.S. Department of the Navy, 1945. (General Motors 16–278A Diesel Engine Series) How to install liner, piston assembly, cylinder head, and rocker lever assembly in reassembly of General Motors 16–278A diesel engine. (*MN 3707–c; 22 minutes*)
..... **41**

Reassembly of Cylinder Head
U.S. Department of the Navy, 1944. (Cooper Bessemer Diesel Engine Maintenance Series. Bench Work No. 5) How to reassemble and install cylinder head; each operation and the use of proper tools. (*MN 2364–i; 14 minutes*)
..... **41**

Reassembly of Piston
U.S. Department of the Navy, 1943. (Cooper Bessemer Diesel Engine Maintenance Series. Bench Work No. 3) How to reassemble piston in Cooper-Bessemer diesel engine. (*MN 2364–g; 10 minutes*)
..... **41**

Reciprocating Pump Opening for Inspection
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Outside Machinist) How to disassemble any type machinery or engine; marking of parts; use of standard machinist's hand tools; safety precautions; demonstration on vertical simplex reciprocating pump. Supplementary filmstrip, same title, also available. (*MN 2348–a; 24 minutes*)
..... **41**

Reclamation in the Arid West
U.S. Bureau of Reclamation [1940?] How dams such as Boulder and Grand Coulee have reclaimed western deserts; dams; canals; new farms; and crops under irrigation. (*10 minutes*)
..... **18**

Reconditioning a Cultivator
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 5) How to replace a worn wheel boxing; adjust yoke; check and adjust shovels; check and lubricate gang expansion and steering assemblies. Supplementary filmstrip, same title, also available. (*OE 453; 14 minutes*)
..... **32, 41**

Reconditioning a Cylinder with a Portable Boring Bar
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Outside Machinist) Checks, adjustments, and alignments to operate boring bar; types, uses,

nomenclature, set-up and operation of portable bar while demonstrating reconditioning of cylinder. Supplementary filmstrip, same title, also available. (*MN 2348–b; 36 minutes*)
..... **41**

Reconditioning a Grain Drill
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 4) How to inspect and repair a typical grain drill; clean and lubricate the fertilizer and seeding mechanism; repair disc furrow openers, drive chains, pawl assembly. Supplementary filmstrip, same title, also available. (*OE 197; 31 minutes*)
..... **32, 41**

Reconditioning a Mower. Part 1: Cutter Bar
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 1) How to check, recondition, and repair the cutter bar mechanism. Supplementary filmstrip, same title, also available. (*OE 194; 21 minutes*)
..... **32, 41**

Reconditioning a Mower. Part 2: Drive System
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 2) How to remove the wheel assembly of a mower, clean and lubricate the parts, replace worn pawls and springs, and worn parts of the drive shaft. Supplementary filmstrip, same title, also available. (*OE 195; 21 minutes*)
..... **32, 41**

Reconditioning a Two-Bottom Tractor Plow
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 3) How to check and repair the wheel assemblies and the power lift assembly; recondition the plowshares; adjust the coulter; and check and adjust the furrow wheels in the field. Supplementary filmstrip, same title, also available. (*OE 196; 25 minutes*)
..... **32, 41**

Reconditioning Convalescents for Return to Duty
U.S. Department of the Army, 1944. Medical facilities of the Army for restoring the physical and mental well-being of wounded soldiers. Primarily to indoctrinate Medical Department personnel. (*TF 8–2070; 37 minutes*)
..... **41**

Reconditioning the Fuel Pump
U.S. Department of the Navy, 1945. (Progressive Maintenance on the General Motors 12–567A Diesel Engines Series. Benchwork) How to install seal assembly, diaphragm, copper seal gasket, shim, setting bar, and spacer in fuel pump. (*MN 3708–g; 17 minutes*)
..... **41**

Reconnaissance for Road Location
U.S. Department of the Army, 1943. (Military Roads Series No. 4) Planning road location for airplanes or maps. Details of preliminary route reconnaissance on the ground. (*TF 5–1196; 10 minutes*)
..... **41**

Reconnaissance Mapping With Trimetrogon Photography
U.S. Geological Survey, 1949. Title self-explanatory. Technical, college and professional level. (*90 minutes, color*)
..... **19**

Reconnaissance Pilot
U.S. Department of the Air Force, 1945. How a fighter pilot ordered into reconnaissance work in the Pacific overcomes his resentment and realizes the valuable part his work plays in helping win the war. (*SFP 125; 26 minutes*)
..... **32, 41**

The Reconnaissance Platoon and Company
U.S. Department of the Army, 1949. Tactical situation in which an armored command penetrates into enemy territory; difficulties involved and orders issued by the Company Commander; scouting, observation, orders, and tactical planning. (*TF 17–1508; 27 minutes*)
..... **41**

Recreation and Athletics in the Navy
U.S. Department of the Navy, 1950. Physical training programs in the Navy. (*MN 6620; 10 minutes*)
..... 41

Recreational and Occupational Therapy
U.S. Office of Education, 1945. (Nursing Series) Recreational and occupational activities fitted to the patient's condition: passive diversion during an immobile state; limited physical activities carried on in bed; individualized occupational therapy; and social recreation projects. Supplementary filmstrip, same title, also available. (*OE 415; 13 minutes*)
..... 32, 41

Rectangular Coordinates
U.S. Department of the Navy, 1944. (Radio Technician Training Series) How to use a coordinate in solving problems involving time and distance; how to locate a point using two coordinates. (*MN 1540–m; 13 minutes*)
..... 7, 41

The Red Bull Attacks: 34th Infantry Division
U.S. Department of the Army, 1950. (Pride of the Outfit Series) History of 34th Infantry Division from 1st Minnesota Volunteers in Civil War; World War I actions; World War II invasion of Casablanca, Battle of Tunis, Kasserine Pass; Salerno; Volturno River; Cassino; Anzio; Liri and Po Valley campaigns. (*M 7555; 21 minutes*)
..... 12

Redesigning a Pattern for Production Purposes
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) How a pattern originally designed for casting a single piece is redesigned for quantity production. Supplementary filmstrip, same title, also available. (*OE 336; 11 minutes*)
..... 32, 41

Reduced Voltage Starters
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 3) Principle of the transformer; operation of a manual starting compensator, thermal overload relay, and automatic starting compensator. Animation. Supplementary filmstrip, same title, also available. (*OE 390; 23 minutes*)
..... 32, 41

Regando la Tierra
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Water on the Land." Portuguese version "Irrigue a Terra" also available. (*9 minutes, color*)
..... 37

Rehabilitation of Chronic Neurological Cases
U.S. Veterans' Administration, 1947. How Minneapolis VA Hospital rehabilitation program has produced excellent results with chronic neurological cases; how typical patient progresses through entire rehabilitation course; how program developed from inception in 1946. Attitude film for hospital administrators and neurologists. (*20 minutes*)
..... 31

Rehabilitation: Voyage to Recovery
U.S. Department of the Navy, 1945. How medical officers; nurses, hospital corpsmen, chaplains, and Red Cross workers cooperate in Navy rehabilitation program; how therapy treatments, outside detail, and liberty are fitted into patients program as prescribed by doctor. (*MN 4330–a; 30 minutes, color*)
..... 41

Relative Movement and Interception. Part 3: Geographic Sector Search; Relative Sector
U.S. Department of the Navy, 1945. (Navigation Series) How to make relative sector and geographic sector search from a carrier. Animation. (*MN 83–aa; 15 minutes*)
..... 41

Relative Movement. Part 1: Relative Movement and Interception: Air
U.S. Department of the Navy, 1944. (Navigation Series) Basic principles of relative movement and interception between planes and ships; how to plot

course and determine arrival time of plane intercepting ship. Model and vector diagrams. (*MN 83–y; 14 minutes*)
..... 41

Relative Movement. Part 2: Out and In Search: Relative Wind
U.S. Department of the Navy, 1944. (Navigation Series) Relative movement, computing time, speed when leaving and returning to carrier; searching on a relative bearing to a carrier and relative wind. Animation and models. (*MN 83–z; 12 minutes*)
..... 41

Removal and Installation, Light Tank M5
U.S. Department of the Army, 1943. (Hydramatic Transmission Series No. 3) How to remove parts, engines, and transmissions; install, prepare engines for installation, hoist and lower. (*TF 9–1003; 15 minutes*)
..... 41

Removal and Replacement of Main Bearings
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series Model 38D8 1/8 O.P.) How to remove and replace upper and lower main bearings; clean, inspect and measure bearing shells; stresses careful handling and cleanliness. (*MN 3691–d; 23 minutes*)
..... 41

Removal of Cylinder Liner
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to remove liner, including various connections and lines, timing mechanism, connecting rods, and upper crankshaft. Continues procedures demonstrated in "Removal of Pistons." (*MN 3691–j; 27 minutes*)
..... 41

Removal of Injection Nozzles, Etc.
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to remove injection nozzles; cylinder relief valve; and indicator cock; and air start check valve. (*MN 3691–b; 5 minutes*)
..... 41

Removal of Intraocular Foreign Bodies
U.S. Department of the Navy, 1945. (Eye Surgery Series) How to locate and operate to remove metallic and nonmetallic bodies from the eye. (*MN 2477–b; 20 minutes, color*)
..... 41

Removal of Nose Alighting Gear
U.S. Department of the Air Force, 1942. (Aircraft Alighting Gear Series) How to counterbalance nose of P–38 so nose alighting gear can be removed with proper precautions. (*TF 1–511; 6 minutes*)
..... 7

Removal of Pistons
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to disconnect and remove both upper and lower pistons. Demonstration continued in "Removal of Cylinder Liner." (*MN 3691–c; 22 minutes*)
..... 41

Removing a Section of Piping Aboard Ship
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Pipefitting) Purpose of piping system; how to remove and tag section of pipe aboard ship; meaning of outside diameter, pitch diameter, pitch cord, bleeding point, backing-off. (*MN 2337–a; 13 minutes*)
..... 41

Removing and Inspecting Cylinders
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to remove the cylinder assemblies from the engine; disassemble the cylinder assemblies; clean, inspect, and recondition the cylinders; and measure clearances. Supplementary filmstrip, same title, also available. (*OE 262; 18 minutes*)
..... 32, 41

Removing and Installing a Compressor or Condenser
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 5) How to evacuate and remove a compressor in a domestic refrigerator; evacuate a stuck compressor; install the compressor; remove and install a condenser. Supplementary filmstrip, same title, also available. (*OE 442; 17 minutes*)
..... **32, 41**

Removing and Installing a Cooling Unit
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 6) Common cooling unit disorders in a domestic refrigerator; how to evacuate valved evaporators; remove an oil-logged evaporator; install the evaporator; and install a direct expansion cooling unit. Supplementary filmstrip, same title, also available. (*OE 443; 19 minutes*)
..... **32, 41**

Removing and Replacing Balance Wheel
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 7) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Removing Cylinders and Nose Section
U.S. Department of the Air Force, 1942. (The 1820 Wright Engine Series) How to remove cylinders and nose section from power section of 1820 Wright engine. (*TF 1–445; 8 minutes*)
..... **7**

Removing Defective Rivets
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 6) How an inspector marks defective rivets; how to drill the heads of flush-type and brazier head rivets; and remove the shank and head after drilling. Supplementary filmstrip, same title, also available. (*OE 141; 15 minutes*)
..... **32, 41**

Repainting a Frame Building
U.S. Office of Education, 1944. (Farm Work Series. Painting No. 1) How to prepare a building for painting; set up staging; prepare paint; apply the prime and second coats; care for brushes, paint, and equipment. Supplementary filmstrip, same title, also available. (*OE 460; 18 minutes*)
..... **32, 41**

Repairing a Wooden Rib
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to remove gussets and broken rib parts; splice a section of cap strip; cut and finish a scarf joint; make a new truss member; make and assemble gussets and reinforce cement plates. Supplementary filmstrip, same title, also available. (*OE 247; 24 minutes*)
..... **32, 41**

Repairing Aircraft Tires
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to inspect an airplane tire; remove the tire; remove the tube from the tire; vulcanize the tube; repair a cut in the tire; and reinstall the wheel. Supplementary filmstrip, same title, also available. (*OE 254; 20 minutes*)
..... **32, 41**

Repairing and Relining Mechanical Brakes
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to check brake action; remove wheel and inspect brakes; disassemble wheel and remove brake lining; install new brake lining; replace brake cables; and adjust brakes. Supplementary filmstrip, same title, also available. (*OE 256; 21 minutes*)
..... **32, 41**

Repairing Structural Tubing
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to straighten a bent tube; round out a tube; remove a damaged section of tube; prepare a replacement section; prepare internal reinforcing sleeves; assemble and weld the replacement section and sleeves.

Supplementary filmstrip, same title, also available. (*OE 253; 20 minutes*)
..... **32, 41**

Repairs
U.S. Department of the Navy, 1945. (Self-sealing Fuel Cells Series) How to make side and corner repair on self-sealing fuel tank and repair split seams and blisters. (*MN 4318–d; 18 minutes*)
..... **41**

Replacement of Cylinder Liner
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to replace cylinder liner, including upper crankshaft, connector rods, timing mechanism, and various connections and lines. Demonstration of procedures continued in "Replacement of Pistons" and "Replacement of Injection Nozzles, Etc." (*MN 3691–k; 27 minutes*)
..... **41**

Replacement of Injection Nozzles, Etc.
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to replace injection nozzles, cylinder relief valve and indicator cock, and the air start valve. Continues demonstrations begun in "Replacement of Cylinder Liner" and "Replacement of Pistons." (*MN 3691–f; 6 minutes*)
..... **41**

Replacement of Pistons
U.S. Department of the Navy, 1944. (Fairbanks Morse Diesel Engine Maintenance Series. Model 38D8 1/8 O.P.) How to replace and connect both upper and lower pistons. Continues demonstration begun in "Replacement of Cylinder Liner." (*MN 3691–e; 20 minutes*)
..... **41**

Replacing Oil Cooler Tubes
U.S. Department of the Navy, 1944. How to test and replace leaking tube in oil filter: swage collapsed tubes; avoid overheating; clean adjacent parts; apply solder ½ inch into tube; reface core around repair. Revision. (*MN 4185–b; 9 minutes*)
..... **41**

Report from Tokyo
U.S. Department of the Navy, 1946. Eight top-ranking military and industrial leaders give their opinion of why Japan fell. (*MN 9139–a; 19 minutes*)
..... **41**

Repulsion Motor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 5) Construction of repulsion motor; rotor circuits and effect of brush position; short-circuiting and brush-lifting mechanism; applications of repulsion motors. Animation. Supplementary filmstrip, same title, also available. (*OE 387; 18 minutes*)
..... **32, 41**

Repulsion-Induction Motor: General Overhaul
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 6) How to check a repulsion-induction motor for electrical and mechanical faults; dismantle it; remove a damaged coil; wind and insulate a new coil; assemble and lubricate the motor. Supplementary filmstrip, same title, also available. (*OE 397; 25 minutes*)
..... **32, 41**

Research and Development
U.S. Department of the Army in cooperation with U.S. Department of the Air Force, 1950. How research and cooperation with industry and universities aid Armed Forces; advances since World War II: guided missiles; airlaying of mines; mid-air refueling; and C–99 cargo transport plane. (*AFSR 114; 22 minutes*)
..... **41**

The Reserve Team
U.S. Department of the Army, 1949. Need for trained reserve force for defense; how Army is developing defense organization augmenting regular Army; National Guard, Organized Reserve Corps, Air Reserve Corps, and Reserve Officers

Training Corps. (*AFSR 108; 20 minutes*)
..... 41

Resistance Welding
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1946. (How To Weld Aluminum Series) Heat and pressure welding; two types of spot-welding machines; use of carbon electrodes; tests; samples of sound and unsound welds. (*12 minutes*)
..... 17

Resistive Exercises in Physical Therapy for Thorocaplasty
U.S. Veterans' Administration, 1950. How skeletal structure and muscle balance are affected by thoracic surgery; deformities often resulting from thoracic surgery; how such deformities can be minimized or corrected by correct posture, overcorrection, and resistive exercises. For patients. (*26 minutes; color*)
..... 31, 41

Respiratory Protection
U.S. Department of the Navy, 1944. Respirators as safety devices; air line, mechanical filter and pad types, and chemical cartridge type respirators. (*MN 1921–e; 13 minutes*)
..... 32

Retailing Fish
U.S. Fish and Wildlife Service, 1948. (Commercial Fisheries Series No. 3) How to select, handle, display and merchandise fresh and frozen fish in retail fish stores. For fish retailers and consumer education. (*18 minutes, color*)
..... 20, 32, 41

Return From the Valley
U.S. Economic Cooperation Administration, 1950. How American aid made possible the return of Greek refugees to their mountain homes; how they began the painful task of establishing a new life in homes and villages wrecked by war and guerilla action. American version. (*14 minutes*)
..... 24

Return of the Pines
U.S. Department of Agriculture, 1948. (White Pine Blister Rust Series) Effective methods of combating costly white pine blister rust disease to conserve soil and watersheds as well as the white pines of the Southern Appalachians. (*15 minutes, color*)
..... 1, 32, 41

Reunited
U.S. Department of the Army, 1946. Education and vocational benefits of Enlisted Reserve Corps; procedures for enlistment. (*M1267; 12 minutes*)
..... 41

Revision and Reamputation of the Lower Extremity Stump
U.S. Department of the Navy, 1945. (Amputations Series No. 2) Syne amputation; lower leg reamputation at the site of fracture; Strokes-Gritti amputation; and a revision and a secondary closure; reamputation techniques; dressing, traction, post operative care, shrinking of stump, use of a pylon and exercise. Special film for medical personnel. (*MN 3429–b; 27 minutes, color*)
..... 41

Rhythm, Speed, and Accuracy in Hand Sending
U.S. Department of the Navy, 1944. (Radio Operator Training Series) Sequence in rhythm and timing; how clear, distinct sending assures proper receiving at destination; several senders' ability compared by means of recording tape. (*MN 2621–c; 11 minutes*)
..... 7, 41

Rib Stitching
U.S. Department of the Navy, 1942. Why and how to rib stitch fabric covered airplane wings; how to use reinforcing tape, space stitches; knots for starting and typing off stitches; stitching to catrips; splicing; needle and thread used. (*MN 192; 19 minutes*)
..... 41

Rice and Bulls
U.S. Economic Cooperation Administration, 1950. How cooperation among the

farmers, new methods, and Marshall Aid machinery are combining to reclaim and irrigate salt lands of Camargue in Southern France. Charles, a cattleman, who dislikes project until he realizes that a rich rice harvest will help him also, reports on project's success. (*17 minutes*)
..... **24**

Richer Range Rewards
U.S. Department of Agriculture, 1946. Range restoring practices advocated by Jordana Experimental Range, Las Cruces, New Mexico: graze only when range is ready for use; no overstocking; and uniform grazing. (*30 minutes, color*)
..... **3, 32, 41**

The Rifle Squad in Attack
U.S. Department of the Army, 1949. Latest techniques in tactics and employment of the rifle squad in the attack. (*TF 7–1504; 25 minutes*)
..... **41**

Rigging Blocks
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Rigging) How to reeve a single whip, a runner, a luff-tackle and a two-fold purchase; related principles of mechanical advantage, friction and relation of effort to weight, including the effects of direction of effort. Supplementary filmstrip, same title, also available. (*MN 2340–h; 10 minutes*)
..... **41**

Right of Way
U.S. Office of War Information, Domestic Branch, 1943. Why the traveling civilian public must be inconvenienced at times so troop trains, freight trains and trucks can deliver materials of war on time. (*7 minutes*)
..... **32, 41**

Rigid and Swinging Staging
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Rigging) How to set up rigid staging, use A-frame stage and extension, double boards overlapped, and a life line; rig swinging staging, using single width boards, take down staging; and stow it. (*MN 2340–c; 17 minutes*)
..... **41**

Ring of Steel
U.S. Office of Emergency Management, 1942. Historical summary and tribute to American soldiers who have protected our country since 1776, forging a "ring of steel" around American democracy. (*10 minutes*)
..... **32, 41**

Rio de Janeiro
U.S. Coordinator of Inter-American Affairs in cooperation with U.S. Office of Strategic Services, 1945. Views of government buildings, Sugar Loaf Mountain, Copacabana Beach, theaters, libraries, parks, and the residents at work and play. (*17 minutes*)
..... **32, 41**

Ripping and Cross-Cutting
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 1) How each working part of the variety saw functions; how to check saw blades; set the fence; change saw blades; use a cutoff gage; use a hinged block in crosscutting. Supplementary filmstrip, same title, also available. (*OE 306; 19 minutes*)
..... **32, 41**

The River
U.S. Department of Agriculture, 1939. Documentary of Mississippi River; destructive practices of past; necessary measures to prevent future soil and lumber losses, and disastrous floods; work of TVA, CCC, and Resettlement Administration. (*32 minutes*)
..... **4, 32, 41**

River of Gold
U.S. Department of the Army, 1950. The "Pick-Sloan" plan for the development of the Missouri River Basin; Corps of Engineers' program and work for development of navigation, flood control, and hydroelectric power. (*32 minutes, color*)
..... **13**

The River People
U.S. Bureau of Indian Affairs, 1949. How the Pima Indians exemplify one of U.S. Indian problems; origin, development and alleviation of problem; Pima folkways reconstructed from legend and history. (*25 minutes, color*)
..... **34**

Road Construction and Maintenance in CBI
U.S. Department of the Army, 1945. Road building in the CBI theater; how U.S. Engineers overcame many difficult obstacles in building roads over high mountains and through dense jungles. (*FB 182; 20 minutes*)
..... **41**

Road Expedients
U.S. Department of the Army, 1943. (Military Roads Series No. 1) Expedient methods of road construction in marshy and sandy soils. Use of corduroy, wire mesh, and other materials in road construction. (*TF 5–1193; 20 minutes*)
..... **41**

Road Repair and Maintenance
U.S. Department of the Army, 1943. (Military Roads Series No. 3) Repair and maintenance of roads in combat zones. Utilization of local materials and the importance of keeping military roads open. How to repair craters, culverts, ditches, chuck holes, and road surfaces. (*TF 5–1195; 9 minutes*)
..... **41**

Road Show
U.S. Department of the Air Force, 1949. How the Exhibit Unit of Air Materiel Command tours the country by truck convoy showing examples of the Air Age with exhibits and aircraft, including American and enemy airplanes of World War II and the XB–47 Stratojet. (*SFP 244; 11 minutes*)
..... **11, 32, 41**

Road to Berlin
U.S. Department of the Army, 1943. Dramatized story of a shipment of supplies from time it leaves a depot in the United States until it reaches the fighting front over U-Boat infested seas. (*WF 8; 20 minutes*)
..... **32, 41**

Road to Decision
U.S. Veterans' Administration, 1947. Purpose, function and value of VA vocational counseling and its role in veterans overall rehabilitation and vocational adjustment. (*30 minutes*)
..... **31**

Roads and Erosion
U.S. Department of Agriculture, 1941. Cooperative conservation measures of farmers and highway departments to control farm and highway erosion; planned highway construction and erosion control. (*21 minutes*)
..... **4, 32, 41**

Roads South
U.S. Coordinator of Inter-American Affairs, 1943. Transportation in the Latin-American countries; why airways have been widely developed; modern transportation contrasted with traveling by burro over mountainous roads; relationship of transportation problems to development of resources and higher living standards. (*19 minutes*)
..... **32, 41**

Rocket Instrumentation
U.S. Department of the Army, 1949. Various methods and instruments used to track and record speed, distance, and flight of rockets; how data recorded are used for improved rocket design and development. (*FB 231; 15 minutes*)
..... **41**

Rocky Mountain Spotted Fever Vaccine
U.S. Public Health Service, 1941. Nature of disease, life cycle of tick, and preparation of vaccine at the U.S. Public Health Service Laboratory at Hamilton, Montana. (*10 minutes, silent, color*)
..... **26**

Root Canal Therapy (Endodontia)
U.S. Department of the Navy, 1948. Title self-explanatory. (*MN 5368; 23 minutes, color*)
..... **41**

Rotating Magnetic Fields
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 2) Rotating magnetic field pattern; three-phase winding in a demonstration stator; factors that cause rotation of the magnetic field; construction of polyphase motors. Animation. Supplementary filmstrip, same title, also available. (*OE 384; 13 minutes*)
..... 32, 41

Rough Grinding: Flat Surfaces
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to grind flat optical surfaces by hand method; blocking of prisms to planoplate; hand grinding; cleaning of mill; inspection; measurement; deblocking; grinding of large pieces of optical glass; and edge grinding. (*MN 2449–e; 30 minutes*)
..... 41

Rough Grinding: Spherical Surfaces
U.S. Office of Education, with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) Three methods of rough grinding lenses: by hand, pin-bar, and mechanical curvature generator. Hand grinding in detail: how to use job card; check tool curvature; handle lone blanks during hand grinding; check lens curvature; and clean grinding tool. Animation. Supplementary filmstrip, same title, also available. (*OE 180; 26 minutes*)
..... 32, 41

Rough Grinding by Pin-Bar: Spherical Surfaces
U.S. Office of Education, with the cooperation of the U.S. Department of the Navy, 1944. How to use job card; select and adjust grinding tool; use abrasive; grind by pin-bar; clean grinding tool; and correct worn grinding tools. Animation. Supplementary filmstrip, same title, also available. (*OE 181; 19 minutes*)
..... 32, 41

Rough Grinding with a Curvature Generator: Spherical Surfaces
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) Theory, function, and operation of curve generating diamond grinding wheel; necessary adjustments throughout proceedings. (*MN 2449–d; 19 minutes*)
..... 41

Rough Grinding with a Vertical Surface Grinder: Flat Surfaces
U.S. Department of the Navy with the cooperation of U.S. Office of Education, 1944. (Optical Craftsmanship Series) How to grind flat surfaces to 1/10,000 inch tolerance by machine; block all surfaces with minimum of changes of position; importance of accurately milled jigs and sufficient coolant for successful grinding. (*MN 2449–f; 26 minutes*)
..... 41

Rough Line-Boring
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 5) How to install the boring bar and cutters; bore, counterbore, and spot face holes; and reposition from one hole to another. Supplementary filmstrip, same title, also available. (*OE 229; 19 minutes*)
..... 32, 41

Rough Turning Between Centers
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Engine Lathe No. 1) How to set up an engine lathe; operate the controls; grind clearances on cutting tools; and rough-turn round bar stock to a specified diameter. Supplementary filmstrip, same title, also available. (*OE 6; 15 minutes*)
..... 32, 41

Rough-Facing, Boring, and Turning a Shoulder
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 2) How to set up a rough casting on a vertical turret lathe; face a flange and turn a shoulder with the sidehead turret; fare a flange

and bore a hole with the vertical turret. Supplementary filmstrip, same title, also available. (*OE 17; 22 minutes*)
..... **32, 41**

Rough-Facing, Turning, and Drilling
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 1) How to center and chuck an aluminum airplane engine casting on the table of the vertical turret lathe; tool up the vertical head and side head for the machining operations. Supplementary filmstrip, same title, also available. (*OE 16; 31 minutes*)
..... **32, 41**

Roughing-In Non-Metallic Sheathed Cable
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to determine the location of required runs; install an offset bar hanger and ceiling outlet box; rough-in a circuit run; make up connections for switches, receptacles, and fixtures. Supplementary filmstrip, same title, also available. (*OE 373; 24 minutes*)
..... **32, 41**

Routine Admission Chest X-Ray in General Hospitals
U.S. Public Health Service with the cooperation of U.S. Office of Education, 1946. Shows the step-by-step sequence of routine miniature film chest X-ray service for patients admitted to the hospital and clinic. For professional audience. (*22 minutes*)
..... **26, 41**

Routine X-Ray Procedures
U.S. Department of the Navy, 1945. X-ray procedure and record; how to fill out forms; store films, prepare film for roentgenologist to interpret; need for complete accuracy. (*MN 2613; 18 minutes, color*)
..... **41**

The Rubber Dam
U.S. Department of the Navy, 1948. (Operative Dentistry Series) Title self-explanatory. (*MN 5369–a; 10 minutes, color*)
..... **41**

Rules in Fog. Parts 1 and 2
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) When to use fog and danger signals; fog signal meanings under inland and international rules; how to determine safe speed in fog. (*MN 202–v; 16 minutes*)
..... **41**

The Rural Co-op
U.S. Department of the Army, 1948. Prepared to show Germans, Austrians and Japanese about American farmer cooperatives. (*20 minutes*)
..... **2, 32, 41**

Rural Rat Control
U.S. Public Health Service, 1950. Extent of rat problem on well-kept farm; correction of specific problems; corn crib, chicken house, dog house; food storage cellar; storage and disposal of household wastes. (*CDC 4–116; 15 minutes*)
..... **27, 41**

Sad Sack
U.S. Veterans' Administration, 1948. Why it is important to retain GI insurance. Animated cartoon. (*2 minutes*)
..... **31**

Saddling and Bridling
U.S. Department of the Army, 1942. (Horsemanship Series No. 1) Parts of saddle and bridle; detailed instructions on blanketing, saddling, and bridling. (*TF 2–600; 24 minutes*)
..... **41**

Safe Aircraft
U.S. Civil Aeronautics Administration, 1950. How factory inspection and maintenance inspection, while airplanes are in service, prevent accidents. (*24 minutes*)
..... **7, 41**

Safe for Solo
U.S. Department of the Navy, 1945. (Primary Flight Training Series) Flight instructions for emergency landings; lost and strange field procedures; altitudes, winds, airspeeds, ground approaches, and take-offs relative to each situation. Ani-

mation. Special film for Naval Air Basic Training Command Activities. (*MN 3474–n; 21 minutes*)
..... **7, 41**

Safe Tuberculosis Nursing
U.S. Veterans' Administration, 1950. Importance of asepsis in nursing TB patients and how to insure proper preventive measures. For professional personnel and medical students. (*20 minutes*)
..... **31, 41**

Safety for Welders: Use of Welding Protective Equipment
U.S. Department of the Navy, 1944. Protective clothing and equipment for welders to prevent eye injuries, skin burns, and metal fume poisoning. (*MN 1921–g; 7 minutes*)
..... **32**

Safety Glass
U.S. Bureau of Mines in cooperation with Ford Motor Co., 1938. Making safety glass from the quarrying of silica sand through pouring and grinding processes to final testing of its strength. (*30 minutes, silent*)
..... **17**

Safety in Air Stations
U.S. Department of the Navy, 1944. How sensible application of safety rules can prevent accidents; how accidents are the result of carelessness. (*MN 1921–b; 14 minutes*)
..... **7, 32**

Safety in Navy Yards
U.S. Department of the Navy, 1944. Danger in not wearing safety shoes, helmet, goggles, etc.; safety rules for traffic, lifting, suspension of ladders, welding precautions, etc. (*MN 1921–a; 16 minutes*)
..... **32**

Safety in Offices
U.S. Department of the Navy, 1944. How to avoid common office accidents by employee cooperation in safety measures and awareness of hazards. (*MN 1921–d; 10 minutes*)
..... **32**

Safety in the Shop
U.S. Office of Education, 1944. (Problems in Supervision Series) Three dramatized instances of shop accidents and their relationship to poor supervisory practices. (*OE 481; 12 minutes*)
..... **32, 41**

Salute to the Ladies
U.S. Department of the Air Force, 1948. How activities of WACS, WASPS, and Flight Nurses play an important role in maintaining air power. (*SFP 227; 18 minutes*)
..... **11, 32, 41**

Salvage
U.S. Office of War Information, Domestic Branch, 1942. Need for salvaging metals, rubber, grease, etc. during wartime to be made into materials of war. (*7 minutes*)
..... **32, 41**

San Francisco, 1945
U.S. Office of War Information, Overseas Branch, 1945. The conference which drew up the Charter of the United Nations. (*17 minutes*)
..... **32, 41**

Sand and Flame
U.S. Bureau of Mines in cooperation with General Motors Corp. (Chevrolet Motor Div.), 1944. Production of finer grades of glass; blowing, hand forming, polishing and pattern cutting; automatic bottle-making machine; making structural, plate, and safety glass; testing optical properties and strength. (*21 minutes*)
..... **17**

Sandfly Control
U.S. Department of the Army, 1947. (Professional Medical Films Series) Symptoms of diseases transmitted by the sandfly; breeding places and methods for control of the insect. Revision. (*PMF 5028; 32 minutes, color*)
..... **41**

San Pietro
U.S. Department of the Army, 1945. (Campaign Reports Series No. 2) Doc-

umentary of U.S. Fifth Army taking San Pietro, an Italian village. (*CR 2; 33 minutes*)
..... 32, 41

Sanding Flat and Irregular Surfaces
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Sander No. 1) How the belt sander operates; how to prepare a sanding belt; sand flat stock on a belt sander; and sand curved molding. Supplementary filmstrip, same title, also available. (*OE 312; 19 minutes*)
..... 32, 41

Saneamento Geral
U.S. Institute of Inter-American Affairs, 1946. (Salud para as Americas) Portuguese version of "Environmental Sanitation." Spanish version "Saneamiento Del Ambiente" also available. (*8 minutes, color*)
..... 37

Saneamiento del Ambiente
U.S. Institute of Inter-American Affairs, 1946. (Salud para as Americas) Spanish version of "Environmental Sanitation." Portuguese version "Saneamento Geral" also available. (*8 minutes, color*)
..... 37

The Sanitary Market
U.S. Institute of Inter-American Affairs, 1947. Dangers of a filthy market and sanitary condition in which markets should be kept since the community's health depends upon the protection of food from disease-causing microbes. Portuguese version "Mercados Asseiados" and Spanish version "Mercados Higienicos" also available. (*9 minutes, color*)
..... 32, 37

Sanitary Milk Production
U.S. Public Health Service, 1950. Sanitary methods of operation: milking, cooling and shipping; cleaning methods and sterilization of utensils, machines and equipment; and construction of physical facilities on farm. For sanitary engineers, milk inspectors. (*CDC 4-099; 13 minutes*)
..... 27, 41

Sanitary Land Fills
U.S. Public Health Service, 1947. (Sanitation Series) Defects in open dump, garbage feeding and incineration garbage disposal. Sanitary, economic and social benefits of land fills, planned and operated as an engineering program. Animation. (*CDC-4-052; 17 minutes, color*)
..... 27, 41

Sao Paulo
U.S. Coordinator of Inter-American Affairs in cooperation with U.S. Office of Strategic Services, 1944. Progress in Brazil's second largest city; cross-section of modern South America: industries, commerce, art, architecture, and educational trends. (*16 minutes*)
..... 32, 41

Save a Day
U.S. Public Health Service, 1941. Various activities of state industrial hygiene engineers; factory dust counts, silicosis prevention measures in mines, etc.; and low-pressure experiments of Division of Industrial Hygiene. (*10 minutes*)
..... 26

Save the Soil
U.S. Department of Agriculture, 1940. Soil conservation practices; terracing, cover-cropping, crop rotation, legumes for nitrogen and humus content, fire prevention, manures and commercial fertilizers. Revision. (*11 minutes*)
..... 32, 41

Sawing a Reverse Curve and a Bevel Reverse Curve
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Band Saw No. 2) How to select and lay out stock to avoid waste; reverse curves to contour lines; use the table tilting gage; saw a beveled, reverse curve; saw a newel post having reverse curves. Supplementary filmstrip, same title, also available. (*OE 310; 18 minutes*)
..... 32, 41

Sawing an Internal Irregular Shape
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Metal Cutting Band Saw No. 1) How to

drill the saw starting hole; make the saw selection; set up a band saw machine; weld saw bands; saw an internal contour shape; and remove and store a band saw. Supplementary filmstrip, same title, also available. (*OE 239; 32 minutes*)
..... **32, 41**

Sawing Template Metal
U.S. Office of Education, 1943. (Aircraft Work Series. Templates No. 4) How to mount a saw blade on a band saw; select and adjust blade guides; saw to a layout line; "chew out" metal from a notch; and remove burrs. Supplementary filmstrip, same title, also available. (*OE 128; 17 minutes*)
..... **32, 41**

Sawing with Jig and Changing Band
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Band Saw No. 1) How to select the proper band saw blades for the job; adjust saw guides; mark stock and cut to the mark; prepare a jig; cut disks, using a jig. Supplementary filmstrip, same title, also available. (*OE 309; 20 minutes*)
..... **32, 41**

Scenic Resources of the Tennessee Valley
U.S. Tennessee Valley Authority, 1938. Recreational use of TVA lands and lakes. (*10 minutes, silent*)
..... **30, 40**

Schistosomes in the Primary Host
U.S. Public Health Service, 1948. (Schistosomiasis Series) Growth and development of the schistosome, showing male and female worms in various stages, in the primary hosts, experimental animals, rabbit and mouse. (*CDC–4–063; 7 minutes*)
..... **27**

The School
U.S. Office of Inter-American Affairs, 1946. One day's activities in an elementary school—the janitor opening the building, children on their way to school, the first grade studying and playing, a P.T.A. meeting in the evening. (*21 minutes*)
..... **32, 41**

School of the Fire Fighter
U.S. Department of the Navy, 1943. (Damage Control Series) Proper method of approaching and fighting all types of fires; handling the apparatus; the use of carbon dioxide extinguishers and foam in fighting fires. (*MN 61–b; 40 minutes*)
..... **7**

Schools to the South
U.S. Coordinator of Inter-American Affairs, 1942. Schools and educational systems of Latin America and the trends in education in these countries. (*14 minutes*)
..... **32, 41**

Sciatic Pain and the Intervertebral Disk
U.S. Department of the Navy, 1945. Symptoms and treatment of functional and organic spine rupturing in lower lumbar region, especially at intervertebral disk; strapping; cast; immobility; surgery to fuse new bone structure. (*MN 1966; 33 minutes, color*)
..... **41**

Science and the Signl Corps
U.S. Department of the Army, 1950. Importance of the Signal Corps in modern war; engineering research and development of modern equipment. (*M 7710; 19 minutes*)
..... **12, 41**

Scraping Flat Surfaces
U.S. Office of Education, 1942. (Machine Shop Work Series. Bench Work No. 2) Hand scraping flat surfaces to a surface plate; five common forms of hand scrapers; operation and care of the flat scraper. Supplementary filmstrip, same title, also available. (*OE 35; 14 minutes*)
..... **32, 41**

Screws and Plates
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 2) How work capabilities of patients with physi-

cal disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Sea Power for Peace
U.S. Department of the Navy, 1948. Panoramic view of today's Navy: how men of fleet are trained to perform technical tasks; new developments in seapower, ships, machines, aircraft, and weapons. Included in "Snowbound; Seapower for Peace" released by U.S. Department of the Army. (*MN 6704; 10 minutes*)
..... **14, 41**

Sea Power in the Pacific
U.S. Department of the Navy, 1946. Role of American sea power in World War II: losses at Pearl Harbor; growth of fleet and sea lanes; fall of Manila; final capitulation; problems overcome. (*MN 6124; 30 minutes*)
..... **14, 41**

Sea Rescue Equipment for Airplane Crews: Inspection and Maintenance
U.S. Department of the Air Force, 1943. Inspection of sea rescue equipment such as pneumatic life vest and one man and multi-place life rafts; maintenance procedures such as vulcanizing cold-patching, and caring for metal parts and accessories. (*TF 1–466; 25 minutes*)
..... **7**

Sea Rescue Equipment for Airplane Crews: One-Man Sea Rescue Equipment
U.S. Department of the Air Force, 1942. Pneumatic life vest and one-man life raft: how to inflate and wear; pre-flight inspection; precautions in inflating and disengaging parachute harness from life raft; operation, manning and repair. (*TF 1–465; 13 minutes*)
..... **7**

Seabee Civilian
U.S. Department of the Navy, 1950. Work and accomplishments of the Seabee in World War II and need for such men in the Navy today. (*MN 6757; 14 minutes*)
..... **14, 41**

Seabees: Can Do Plus
U.S. Department of the Navy, 1950. Work of Seabees in World War II; need for similar personnel today; skills needed; training offered. Recruiting film. (*MN 6841; 13 minutes*)
..... **14, 41**

Seagoing Leathernecks
U.S. Marine Corps, 1950. History of Marine Corps; life aboard ship; duties and recreational activities. Television film trailer. (*1 minute*)
..... **15**

Search and Rescue Boat Handling
U.S. Coast Guard, 1947. (Search and Rescue Series. Standardization of Crew Training for Search and Rescue Craft) How SAR 63 ft. boat rescues PBM forced down offshore with injured man aboard; how to approach plane; throw line; drift raft to plane to take off injured man; how to place man on raft; how to tow plane to harbor. (*10 minutes, color*)
..... **41**

Search Patterns
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) How Ocean Station Vessel uses "expanding square" pattern to search for survivors of ditched plane on life rafts without electronic equipment; how OSV and SAR plane using aerial "ladder pattern" search locate rafts. Animation. (*7 minutes, color*)
..... **41**

Second To None
U.S. Veterans' Administration, 1946. Maj. Gen. Paul R. Hawley, Chief Medical Director, VA Department of Medicine and Surgery, describes briefly VA's new medical program. A trailer. (*1 minute*)
..... **31**

Sectional Views and Projections, Finish Marks
U.S. Office of Education, 1944. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 4) Dimension, center, cross-section, and object lines; projection of a sectional view; uses of

finish marks; and meanings of standard cross-section lines. Supplementary filmstrip, same title, also available. (*OE 54; 15 minutes*)

..... **32, 41**

Securing

U.S. Department of the Navy, 1944. (Fireroom Operation Series) Operations involved in securing the main steam stop, the saturated burners, fuel-oil pump, and fuel-oil valve. (*MN 2356–b; 15 minutes*)

..... **41**

Security and Refueling with Safety

U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How to refuel and oil plane at base and away; precautions; how to secure on shore. (*MN 1338–a; 30 minutes*)

..... **41**

Sedan

U.S. Economic Cooperation Administration, 1950. War history of Sedan through centuries of invasions and occupations; how E.R.P. reconstruction extends to virtually every phase of city's life; effects of Marshall Plan as seen in rehabilitation of Sedan's woolen industries; techniques of textile manufactures. (*20 minutes*)

..... **24**

Seizure: The Medical Treatment and Social Problems of Epilepsy

U.S. Veterans' Administration, 1951. Diagnosis and treatment of epilepsy illustrated through the story of an epileptic veteran, the background of his condition and his treatment in a Veterans' Administration hospital. Animated pictographs of the physiological basis of epilepsy; clinical manifestations of more common types of seizures; socio-economic problems facing an epileptic. (*48 minutes*)

..... **31, 41**

Self-Preservation in an Atomic Bomb Attack

U.S. Department of Defense, 1950. Individual methods of self-preservation in an A-Bomb attack; how Army, Navy and Air Force servicemen protect themselves in three common situations; methods of protection from air or underwater explosions; relative effects of blast, heat and radiation. (*18 minutes*)

..... **11, 12, 14, 32, 41**

Semiautomatic and Hand Molding of Intricate Parts

U.S. Office of Education, 1945. (Plastics Series No. 6) How to mold a part with undercuts; mold a part with complicated shape; assemble and disassemble a hand mold. Animation. Supplementary filmstrip, same title, also available. (*OE 471; 16 minutes*)

..... **32, 41**

La Semilla de Oro

U.S. Coordinator of Inter-American Affairs, 1943. Spanish version of "The Grain That Built A Hemisphere." Portuguese version "Milho O Grád Qùe Foi O Alicerce De Um Hemisférid" also available. (*11 minutes, color*)

..... **37**

Semper Paratus

U.S. Office of War Information, Domestic Branch, with the cooperation of U.S. Coast Guard, 1943. The background for the U.S. Coast Guard marching song, tells the whole story of the Coastguardsman's training and the job he does. (*4 minutes*)

..... **21, 32, 41**

Series and Parallel Circuits

U.S. Department of the Navy, 1945. (Radio Technician Training Series. Elementary Electricity) Illustrates a series circuit explaining voltage drop across each lamp and a parallel circuit explaining resulting current flow and voltage drop across lamp. Supplementary filmstrip, same title, also available. (*MN 1540–v; 7 minutes*)

..... **41**

Service of Food

U.S. Department of the Army, 1949. Work of the Army mess steward and his kitchen crew. (*TF 10–1514; 14 minutes*)

..... **41**

Servicing a Propeller
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to inspect and remove a propeller; repair damage to the metal edges; check and correct for out-of-track and for out-of-balance; and reinstall the propeller. Supplementary filmstrip, same title, also available. (*OE 277; 18 minutes*)
..... **32, 41**

Servicing an Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) How to perform the various routine servicing operations on a light airplane including cleaning an airplane, refueling, changing oil, inflating tires, and starting the engine. Supplementary filmstrip, same title, also available. (*OE 279; 17 minutes*)
..... **7, 32, 41**

Servicing and Timing Magnetos
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to remove magnetos from the engine; install and adjust new points; and reinstall and time the magnetos. Supplementary filmstrip, same title, also available. (*OE 266; 16 minutes*)
..... **32, 41**

Servicing Equipment in the Airplane
U.S. Department of the Air Force, 1943. (Oxygen Equipment Series) How to distinguish between high and low pressure systems, methods of refilling, cleaning, and checking; precautions to be taken. For ground crews. (*TF 1–488; 11 minutes*)
..... **7**

Servicing Spark Plugs and Ignition Wiring
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to remove the spark plugs and ignition wires; clean, inspect, and adjust spark plugs; prepare new ignition wires; and reinstall the spark plugs and ignition wires. Supplementary filmstrip, same title, also available. (*OE 265; 22 minutes*)
..... **32, 41**

Servicing the Aviation Spark Plug
U.S. Department of the Air Force, 1942. History of the development of specialized spark plugs used in aviation engines; their parts, care, adjustment, cleaning, and assembly. (*TF 1–566; 23 minutes*)
..... **7**

Servicing the High-Pressure Removable Cylinder
U.S. Department of the Air Force, 1943. (Oxygen Equipment Series) How to refill oxygen tanks and precautions necessary to prevent moisture and oil getting into the fittings. (*TF 1–489; 10 minutes*)
..... **7**

Servicing Water Cooled Condensers
U.S. Office of Education, 1945. (Refrigeration Service Series. Commercial Systems No. 4) Theory of a counter-flow condenser; essential elements of a water cooled system; operation of the electric water valve and how to regulate it. Supplementary filmstrip, same title, also available. (*OE 451; 12 minutes*)
..... **32, 41**

Serving the Merchant Marine
U.S. Coast Guard, 1944. How Coast Guard safeguarded Merchant Marine; war against U-boats; rescue of torpedoed ship survivors, preventive measures to insure safety at sea, port security, aids to navigation work. (*28 minutes*)
..... **21**

Serving the Nation
U.S. Department of Defense, 1950. Armed Forces peacetime activities; work in local disasters such as floods, fires, and storms. (*AFIF 7; 16 minutes*)
..... **12, 32, 41**

The Setting of Endemic Schistosomiasis in Puerto Rico
U.S. Public Health Service, 1948. (Schistosomiasis Series) Characteristic infection patterns of Puerto Rican endemic schistosomiasis: inadequate sewage disposal systems pollute brook at Barranquitas, river at Comerio, and sugar cane irrigation ditches at Guayama. (*CDC–4–065; 4 minutes*)
..... **27**

Setting Up and Machining Bar Stock
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 4) How to set up the turret lathe for the production machining of bushings from bar stock; install the collet; set up the hexagon turret and the cross slide. Supplementary filmstrip, same title, also available. (*OE 215; 34 minutes*)
..... 32, 41

Setup for Face Milling With a Fixture
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 1) How the horizontal boring, drilling, and milling machine operates; how to install the fixture; set up the workpiece; select and install an end mill and a face mill. Supplementary filmstrip, same title, also available. (*OE 225; 20 minutes*)
..... 32, 41

Setup for Rough Line-Boring
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 4) How to position the workpiece on the table; position the spindle for horizontal centers and for vertical centers. Supplementary filmstrip, same title, also available. (*OE 228; 15 minutes*)
..... 32, 41

Seventh Infantry Division
U.S. Department of the Army, 1949. 7th Infantry Division's early training at Ft. Ordnance, Calif.; four major campaigns: Attu, Leyte, Kwajalein, and Okinawa; occupational duties in Korea. (*M 7533; 22 minutes*)
..... 12, 41

Sewage Treatment
U.S. Public Health Service, 1948. (Sanitation Series) Primary and secondary treatment of sewage to remove danger of pollution before discharge into stream or body of water. A film short. (*CDC–4–078; 5 minutes*)
..... 27

The Sextant: Surface. Parts 1, 2, and 3
U.S. Department of the Navy, 1943. (Navigation Series) Proper procedure for handling the sextant and making observations; value of experience. (*MN 83–i; 32 minutes*)
..... 41

Shades of Gray
U.S. Department of the Army, 1948. (Professional Medical Films Series) Psychoneurosis in Army: causes and treatment. (*PMF 5047; 66 minutes*)
..... 32, 41

Shallow Water Diving
U.S. Department of the Navy, 1944. (Deep Diving Series) Diving bell, standard helmet, preparation for diving; superior characteristics of experimental face mask; how to adapt Mark 3 gas mask to shallow water diving. (*MN 105–d; 23 minutes*)
..... 41

The Shaper
U.S. Office of Education, 1945. (Machine Shop Work Series. Basic Machines) Functions, characteristics, and basic operations of the shaper. Supplementary filmstrip, same title, also available. (*OE 70; 15 minutes*)
..... 32, 41

Shaping After Template and Shaping Curved Edges
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 2) How to make a template for the job; install knives in the spindle; use the template when smoothing squared edges; set up equipment for shaping a curved edge; shape a curved edge. Supplementary filmstrip, same title, also available. (*OE 319; 17 minutes*)
..... 32, 41

Sharpening a Form Relieved Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 5) What constitutes the rake angle and the clearance angle

of the form relieved cutter; how to mount the correct attachment; set up for spotting the back of the teeth; and grind the face of the teeth. Supplementary filmstrip, same title, also available. (*OE 93; 18 minutes*)
..... **32, 41**

Sharpening a Plain Helical Milling Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 2) How to mount the helical cutter on an arbor; grind the secondary clearance angle; and check and adjust for taper when grinding the primary clearance angle. Supplementary filmstrip, same title, also available. (*OE 91; 16 minutes*)
..... **32, 41**

Sharpening a Shell End Mill
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 3) How to select the correct arbor; mount the work head; adjust the work head for clearance settings; and set up for sharpening the outside diameter, corner, and face. Supplementary filmstrip, same title, also available. (*OE 92; 17 minutes*)
..... **32, 41**

Sharpening a Side Milling Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 1) How to identify the parts of a cutter; select and mount the correct grinding wheel; mount the cutter; set up the grinder for sharpening; set the correct clearance angle; and check for correct width of land. Supplementary filmstrip, same title, also available. (*OE 90; 23 minutes*)
..... **32, 41**

Sharpening an Angular Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 4) How to choose the correct grinding wheel; adjust the swivel table for grinding the angular teeth of the cutter; adjust the clearance angle; and check the teeth for accuracy of the angle. Supplementary filmstrip, same title, also available. (*OE 94; 15 minutes*)
..... **32, 41**

Sharpening and Tempering Farm Tools
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 3) How to heat carbon-steel tools for forge sharpening; sharpen, harden, and temper a plowshare, and a cultivator shovel; and identify tempering colors. Supplementary filmstrip, same title, also available. (*OE 193; 17 minutes*)
..... **32, 41**

Sharpening Hand Gravers
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 1) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Sharpening Screw Drivers and Tweezers
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 4) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Sheep Shearing
U.S. Office of Education, 1944. (Farm Work Series. Livestock No. 1) How to handle sheep for shearing; shear the sheep and roll and tie the fleece. Supplementary filmstrip, same title, also available. (*OE 199; 21 minutes*)
..... **32, 41**

The Sheet Bend
U.S. Coast Guard, 1943. How sheet bend is variation of square knot and how to tie it. (*3 minutes*)
..... **41**

Shell Mounds in the Tennessee Valley
U.S. Tennessee Valley Authority, 1937. Excavation of prehistoric shell mounds in Pickwick Landing Dam Area. (*21 minutes, silent*)
..... **30, 40**

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Shipboard Training: Learning by Doing
U.S. Department of the Navy, 1949. Three steps in on-the-job instruction: prepare, present and follow through. (*MN 5328–b; 13 minutes*)
..... **41**

Shipbuilders of Essex
U.S. Department of State, 1950. How wooden ships are handbuilt in Essex, Mass.; careful workmanship; life and customs of town; construction of 70 ft. trawler the *St. Rosalie*. Released through U.S. Office of Education for educational use in the United States. (*22 minutes*)
..... **32, 41**

Ship's Blueprints: Basic
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) How to identify fundamental structural elements in ship construction by orthographic drawings and symbols; visualize these drawings in three dimensions; use and function of dotted and hidden lines. Supplementary filmstrip, same title, also available. (*MN 2335–a; 21 minutes*)
..... **41**

Ship's Nomenclature
U.S. Coast Guard, 1943. Location and terminology of various parts of Coast Guard Cutter; primarily topside nomenclature. (*12 minutes*)
..... **41**

Shock Troop: Lumber
U.S. Department of the Army, 1943. How American lumberman is the "shock troop" of the timberline; lumber's contribution to the war effort; lumber in military equipment and supplies. (*WF 5; 11 minutes*)
..... **41**

Shop Safety
U.S. Department of the Army, 1945. Accidents, their causes and prevention; safety rules which apply to arc and gas welding, hoisting methods, working with machinery and on engines. Use of tools, lifting and pushing heavy objects, and handling of gasoline. (*TF 9–2085; 28 minutes*)
..... **32, 41**

Sicily to Naples
U.S. Department of the Army, 1948. (Historical Reports Series) Role of American 6th Corps and British 10th Corps in invasion of Italy. Includes captured German footage. (*HR–C–2; 13 minutes*)
..... **12, 32, 41**

Side Frames: Subassembly of a Web Frame
U.S. Office of Education, 1942. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 4) How to lay out the main web plate from a template; fit stiffeners to the web plate; dog the stiffeners to the plate for welding. Supplementary filmstrip, same title, also available. (*OE 27; 17 minutes*)
..... **32, 41**

Sighting and Aiming
U.S. Department of the Army, 1943. (Rifle Marksmanship With the M–1 Rifle, Preparatory Training Series No. 1) Improving sight alignment, correct aiming technique, use of the sighting board, explanation of sights and targets, use of box method in sight alignment, and reliability of line of fire. (*TF 7–969; 33 minutes*)
..... **32, 41**

The Sign of Dependable Credit
U.S. Department of Agriculture, 1941. Farmer-controlled production credit associations for short-term loans; city dollars invested in major and specialized crops through this cooperative credit system. (*20 minutes*)
..... **2, 32, 41**

Signal Generator Operation
U.S. Department of the Navy, 1945. (Radio Technician Training Series) How to use signal generator in aligning receiver; use modulation and attenuator switches; adjust for various frequencies; check primary and secondary with voltmeter and alignment with ear phones. (*MN 1540–q; 9 minutes*)
..... **7, 41**

Silent Service
U.S. Department of the Navy, 1946. Documentary of submarine service in

World War II including, in authentic on-the-scene photography, the destruction of Japanese shipping. (*MN 9141; 38 minutes; color*)

..... 14

Silent War

U.S. Coordinator of Inter-American Affairs, 1943. How scientists war against yellow fever in Columbian jungles; how vaccine is made, dried, frozen, and transported by mule; how this research is making United Nations fighters immune. (*10 minutes*)

..... 32, 41

Silicate Cement

U.S. National Bureau of Standards in cooperation with Research Council of the American Dental Association, 1947. How to prepare good restorations: mixing powder and liquid, protecting cement from loss or gain of water; effect of technic on setting time, strength, shrinkage, solubility, and staining. (*19 minutes, color*)

..... 9

Silver Brazing Techniques. Part 1

U.S. Department of the Navy, 1945. Equipment needed; preparatory steps; safety precautions; procedure; and advantages of silver brazed joints; inefficient and efficient work methods contrasted. (*MN 3549–a; 19 minutes*)

..... 41

Silver Brazing Techniques. Part 2

U.S. Department of the Navy, 1945. How to braze bulkhead sleeves; boss braze; seam braze, and braze unions; how to take brazed assembly apart; tests; precautions when brazing valves. (*MN 3549–b; 18 minutes*)

..... 41

Simple Foundation. Part 1: Layout

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. The Shipfitter) Layout of simple foundation; actual operations; how to mark template with necessary directions. Animation, live photography. Supplementary filmstrip, same title, also available. (*MN 2338–b; 28 minutes*)

..... 41

Simple Foundation. Part 2: Duplication and Fabrication

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. The Shipfitter) Duplication and fabrication procedures using side plates, web plate, bracket template, top plate, reinforcing ring, and portable angle. How heat is applied when a template has stretched. Supplementary filmstrip, same title, also available. (*MN 2338–c; 16 minutes*)

..... 41

Simple Foundation. Part 3: Assembly and Installation

U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. The Shipfitter) Assembly and installation of the foundation. Supplementary filmstrip, same title, also available. (*MN 2338–d; 23 minutes*)

..... 41

Simple Hydraulic Systems

U.S. Department of the Navy, 1944. (Elementary Hydraulics Series) Features of simple hydraulic systems demonstrated with hydraulic jack and hydraulic braking system of automobile. (*MN 1730–g; 17 minutes*)

..... 7

Single Ram Vertical Surface Broaching

U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Broaching Machine No. 2) Single ram vertical machine; how to install broaching inserts for straddle broaching; mount the tool holder with its assembled broaching tool; mount and adjust the work fixture; and surface-broach. Supplementary filmstrip, same title, also available. (*OE 237; 28 minutes*)

..... 32, 41

Single-Phase and Polyphase Circuits

U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 1) Single-phase synchronous generator; the use of sine curves to illustrate flow changes; a two-phase system and three-phase system; ways to simplify wiring. Animation. Supplementary filmstrip, same

title, also available. (*OE 383; 17 minutes*)
..... 32, 41

Sixth Infantry Division
U.S. Department of the Army, 1948. 6th Infantry Division combat operations in New Guinea; securing Maffin Bay area; amphibious landing at Sansapor to build air base; assault landing at Lingayen Gulf, Luzon. (*M 1297; 20 minutes*)
..... 12, 32, 41

The 6th Marine Division On Okinawa
U.S. Marine Corps, 1946. Complete story of the 6th in the Okinawa Operation. (*60 minutes, color*)
..... 15

Skeletal Fixation by the Stader Splint: Fractures of the Oscalsis
U.S. Department of the Navy, 1943. How to disimpact fragments; restore tuber joint angle; correct pronation; widen and immobilize. Application of Stader splint, operation, post-operative x-rays, and care. Special film for medical personnel. (*MN 1724–b; 10 minutes*)
..... 41

Skeletal Fixation by the Stader Splint: Fractures of the Tibia
U.S. Department of the Navy, 1943. Stader splint; its utilization for a fractured tibia; use of special right angle splint for proximal or distal fracture in which smaller fragment is incapable of holding regular pin bar. Special film for medical personnel. (*MN 1724–a; 22 minutes*)
..... 41

Skeletal Fixations of Fractures of the Mandible
U.S. Department of the Navy, 1943. Technique for application of the Roger Anderson splint. Special film for medical personnel. (*MN 1901; 9 minutes, color*)
..... 41

Sky Dancers of Papantla
U.S. Coordinator of Inter-American Affairs, 1942. (Mexican Fiestas Series No. 4) Celebration of Corpus Christi at Papantla; ritual dances, including mystic dance of the Voladores. (*11 minutes, color*)
..... 32, 41

The Slide Rule: "C" and "D" Scales
U.S. Office of Education, 1943. The "C" and "D" scales of the slide rule, the parts and markings of the rule. How to use these scales for multiplication and division. Supplementary filmstrip, same title, also available. (*OE 179; 24 minutes*)
..... 32, 41

The Slide Rule: Proportion, Percentage, Squares and Square Roots
U.S. Office of Education, 1944. How to use the "B" and "C" scales of the slide rule to calculate proportions and percentages, squares and square roots; and determine the placing of decimals. Supplementary filmstrip, same title, also available. (*OE 354; 21 minutes*)
..... 32, 41

Slinging Load
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Rigging) How to rig and use slings to handle various types of loads; safety precautions. (*MN 2340–d; 17 minutes*)
..... 41

Slips
U.S. Department of the Navy, 1947. (Primary Flight Training Series) How to execute slips; common errors. Animation over live photography. (*MN 3474–q; 11 minutes*)
..... 7

Slow Roll
U.S. Department of the Navy, 1943. (Intermediate Acrobatics Series) How to perform slow roll; its use in dog fight; errors to avoid: inverted position, black out. "Joe Student" film. Animation. (*MN 1325–b; 10 minutes*)
..... 7, 41

Slow-Motion Study of Fuel Injection and Combustion in a Diesel Engine
U.S. National Advisory Committee For

Aeronautics, 1944. Technical film; title self-explanatory. (*33 minutes, silent*)
..... **28**

Slow-Motion Study of Normal Combustion, Preignition, and Knock in a Spark-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1940. Technical film; title self-explanatory. (*33 minutes, silent*)
..... **28**

The Small Infantry Tank Team. Part 2: Attack Mission
U.S. Department of the Army, 1949. How team works during a combat mission; factors which determine how the team advances; movement through different types of terrain, open fields, woods, defiles, etc.; artillery and mortar support. (*TF 7–1541; 14 minutes*)
..... **41**

Smoke Flow: Lift and Drag
U.S. National Advisory Committee For Aeronautics, 1942. Technical film; title self-explanatory. Short version: "Study of Airflow by Means of Smoke." (*66 minutes, silent*)
..... **28**

Smokejumpers
U.S. Department of Agriculture, 1949. Training, equipment, jump techniques, and duties of parachute fire fighters in combating fire in remote roadless areas. (*10 minutes, color, also b&w*)
..... **3, 32, 41**

Smokejumpers: Ground Training
U.S. Department of Agriculture, 1947. (Smokejumpers Series No. 2) Physical conditioning preparatory to jump training; getting accustomed to equipment. (*18 minutes, color*)
..... **3, 32, 41**

Smokejumpers: Indoctrination
U.S. Department of Agriculture, 1947. (Smokejumpers Series No. 1) Classroom situation explaining use of parachutes and other equipment. (*19 minutes, color*)
..... **3, 32, 41**

Smokejumpers: Jump Training
U.S. Department of Agriculture, 1947. (Smokejumpers Series No. 3) Practice jumping and fighting routine fires. (*20 minutes, color*)
..... **3, 32, 41**

"Smokey Bear": Don't Blame Lightning
U.S. Department of Agriculture, 1950. Rules of safety with fire in the woods. Forest fire prevention trailer. (*1 minute*)
..... **3, 32, 41**

"Smokey Bear": It's Up To You
U.S. Department of Agriculture, 1950. Appeal for help in preventing forest fires. Forest fire prevention trailer. (*4 minutes*)
..... **3, 32, 41**

"Smokey Bear": Once Upon a Time
U.S. Department of Agriculture, 1950. Proper care of fire in woods. Fire prevention trailer. (*5 minutes*)
..... **3, 32, 41**

Snow Harvest
U.S. Department of Agriculture, 1946. Value and hazards of snow surveys in Western mountains; techniques of measuring snow to forecast irrigation and other water supplies. (*25 minutes, color*)
..... **4, 32, 41**

Snowbound; Seapower for Peace
U.S. Department of the Army, 1949. Winter 1948-49, the Armed Forces by air and ground get food and fuel to farmers and hay to animals in snowbound areas. Men of the fleet trained to perform their technical task; new developments in seapower, ships, machines, aircraft, and weapons. Includes "Seapower for Peace" released by U.S. Department of the Navy. (*AFSR 104; 10 minutes*)
..... **41**

Soft Tissue Wounds
U.S. Department of the Navy, 1944. (Medicine in Action Series) How to remove shell fragments from four typical battle wounds: upper thigh, scapula, leg, and arm wounds; recommended treat-

ments. Special film for medical personnel. (*MN 3726–d; 10 minutes, color*)
..... 41

Social Adjustment of the Blinded Soldier
U.S. Department of the Army, 1946. (Professional Medical Films Series) Methods used by trained personnel at Avon School, Conn.; phases essential to the training of a blind individual such as manual therapy and psychiatric orientation. Revision. (*PMF 5035; 29 minutes*)
..... 41

So Much for So Little
U.S. Public Health Service, 1949. Health hazards threatening a typical American family successfully controlled by a properly staffed local health department. (*11 minutes, color*)
..... 26, 32, 41

So Many Hands
U.S. Department of the Navy, 1944. Morale film for Navy personnel assuring them of fine medical care given all casualties. (*MN 3430; 16 minutes, color*)
..... 41

Soil and Water Conservation
U.S. Department of Agriculture, 1948. (Soil Conservation Series No. 4) Conservation farming methods to protect soil and water resources; contouring, terracing, strip cropping, cover cropping, rotation, tree and grass planting, etc. (*9 minutes*)
..... 4, 32, 41

Soil, Cement Surfaces
U.S. Department of the Army, 1942. (Military Roads and Runways Series No. 4) Various methods in road and runway construction. (*TF 5–1192; 12 minutes*)
..... 41

Soldering Lugs and Splicing Stranded Conductors
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to solder a lug; splice stranded conductors; and make a served cable splice. Animation. Supplementary filmstrip, same title, also available. (*OE 371; 18 minutes*)
..... 32, 41

Soldiers Without Guns
U.S. Department of the Army, 1944. How work done by civilian War Department employees is a major factor in the efficient functioning of the U.S. Army. (*WF 9; 20 minutes*)
..... 41

Solution of Illustrative Problems in Celestial Navigation
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Preflight computations and flight procedure in making a typical celestial navigation flight; use of the sextant in shooting stars. (*TF 1–550; 32 minutes*)
..... 32, 41

Some Effects of Air Flow on Combustion in a High-Speed Compression-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1936. Technical film; title self-explanatory. (*17 minutes, silent*)
..... 28

Some Effects of Air-Fuel Ratio on Combustion in a High-Speed Compression-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1935. Technical film; title self-explanatory. (*17 minutes, silent*)
..... 28

Some Effects of Fuel Injection Advance Angle on Combustion in a High-Speed Compression-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1935. Technical film; title self-explanatory. (*17 minutes, silent*)
..... 28

Some Effects of Nozzle Design on Combustion in a High-Speed Compression-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1936. Technical film; title self-explanatory. (*17 minutes, silent*)
..... 28

Some Pickin'
U.S. Department of Agriculture, 1946. National Cotton Picking Contest, Blytheville, Arkansas; slow-motion close-ups of best picking methods: easy rhythm, body relaxed, both hands working, and bolls "palmed" with few trips to sack. (*18 minutes*)
..... 32, 41

Something You Didn't Eat
U.S. Department of Agriculture, 1945. Seven food groups vital to health; vitamin deficiency diseases: scurvy and beriberi; diet selection for essential nutrients to include all groups. Animation. (*9 minutes, color*)
..... 32

South Chile
U.S. Coordinator of Inter-American Affairs, 1945. Very southernmost part of South America, the life and agriculture of distant Patagonia; glacial scenery; sheep raising. (*21 minutes*)
..... 32, 41

The South Grows Green
U.S. Department of Agriculture, 1948. Crop diversification; increased crop variety and production; role of soil-building crops, lespedeza, sericea, and kudzu. (*43 minutes, color*)
..... 4, 32, 41

South of the Border with Disney
U.S. Coordinator of Inter-American Affairs, 1943. Experiences and impressions of Disney creations on tour of Central and South America; Joe Carioca, Brazilian comedy parrot, joins group; Argentine native dances and estancia barbecue; Donald Duck at Lake Titicaca; Pluto as Argentine gaucho. Cartoon sketches later developed in feature film "Saludos Amigos." (*40 minutes, color*)
..... 32

South With the Sun
U.S. Marine Corps, 1949. Marine Corps activities in Cuba, Puerto Rico, Bermuda, and Trinidad. (*20 minutes, color*)
..... 15

Southern Brazil
U.S. Coordinator of Inter-American Affairs in cooperation with U.S. Office of Strategic Services, 1945. Progress in Parana, Santa Catarina, and Rio Grande de Sul; cattle and grain industries. (*20 minutes*)
..... 32, 41

Special Circumstances
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) When rules of special circumstances are not applicable; court decisions on five cases. (*MN 202–x; 14 minutes*)
..... 41

Special Lights
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) International and inland rules for flare-up, naval, and navigation signals; pilot and fishing vessels; trawlers; ferry boats; dredges; subsurface vessels; pipe lines; floating plants; airplanes; small craft; fishing craft at anchor. (*MN 202–g; 28 minutes, color*)
..... 41

Special Steering and Sailing Rules
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Steering and sailing rules for steam vessel under way and a sailing vessel fishing; defines "privilege" and "burden." (*MN 202–z; 14 minutes*)
..... 41

Speed Drop
U.S. Department of the Navy, 1943. (Diesel Engine Governors Series. Marquette Governor No. 2) How load equalizer is added to governor to control speed; how power piston and speeder spring function. (*MN 2598–b; 5 minutes*)
..... 41

Spinning
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1944. (How to Form Aluminum Series) Metal spinning techniques; standard tools required; functions of spinning tools; im-

portance of lubrication; art of hand and shoe spinning. (*17 minutes*)
..... 17

Spins and Stalls
U.S. Department of the Navy, 1945. (Flight Safety Series) Need for flight safety precautions; five rules to follow; case histories of stall-spin accidents showing causes and corrections. (*MN 4353–a; 18 minutes*)
..... 7

Splicing a Wooden Spar
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) How to cut a scarf joint on a spar; finish a scarf face by hand; glue and assemble a scarf joint; make, glue, and assemble reinforcement plates; and trim a spar to shape and size. Supplementary filmstrip, same title, also available. (*OE 248; 21 minutes*)
..... 32, 41

Split-Phase Motor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 4). Construction of stator and rotor; comparison of winding in two-phase stator with split-phase stator; effects of winding resistances and inductive reactances; use of capacitor to produce phase displacement. Animation. Supplementary filmstrip, same title, also available. (*OE 386; 17 minutes*)
..... 32, 41

Split-Phase Motor Rewinding
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 3) How to test a split-phase motor for electrical and mechanical faults; dismantle and strip the stator; rewind the stator; form and install skein windings; insulate, lace, dip, and bake the stator; assemble, lubricate, and test the motor. Supplementary filmstrip, same title, also available. (*OE 394; 28 minutes*)
..... 32, 41

Sporocysts and Cercariae of Schistosoma Mansoni
U.S. Public Health Service, 1948. (Schistosomiasis Series) A study of cercariae in all stages; cercarial movements and penetration; and a young daughter (secondary) sporocyst. (*CDC–4–064; 5 minutes*)
..... 27

Sports and Recreation in Japan
U.S. Department of the Army, 1945. Pre-war Japanese sports and movies, dancing, vaudeville, dramatics, and tea houses. (*M 1067; 31 minutes*)
..... 41

Spot Welding
U.S. Office of Education, 1945. (Aircraft Work Series. Assembling and Riveting No. 9) How to spot weld parts of an access cover; set up the machine; remove and install electrodes; set pressure, current, and time controls; test the setup; and clean the electrode tips. Supplementary filmstrip, same title, also available. (*OE 295; 20 minutes*)
..... 32, 41

Spraying Equipment and Procedures. Part 1: Residual Spraying
U.S. Public Health Service, 1950. (Community Fly Control Series No. 1) Exterior residual spraying, a supplementary control measure of basic sanitation: the occasion, procedure and equipment for residual spraying. (*CDC–4–091; 8 minutes*)
..... 27, 41

Spraying Equipment and Procedures. Part 2: Space Spraying
U.S. Public Health Service, 1950. (Community Fly Control Series No. 2) Exterior space spraying: application of insecticides for adult fly control in large areas; frequency of spraying; equipment, mist and fog applicators; and supplementary measures. (*CDC–4–110; 7 minutes, color*)
..... 27, 41

The Squad
U.S. Department of the Navy, 1942. (Close Order Drill Series) How a regiment is composed of companies, platoons, and squads; how the individual and the squad execute various military drills. (*MN 201–a; 23 minutes*)
..... 41

The Square Knot
U.S. Coast Guard, 1943. Defines the terms bight, standing part, and fall piece; and demonstrates how to form a square knot. (*4 minutes*)
..... 41

Squeeze Riveting: Stationary and Portable Riveters
U.S. Office of Education, 1945. (Aircraft Work. Assembling and Riveting No. 7) How to select correct rivet sets for stationary and portable squeezers; setup and use the stationary squeezer and the portable squeezer. Supplementary filmstrip, same title, also available. (*OE 293; 15 minutes*)
..... 32, 41

Squirrel-Cage Rotor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 3) Laws of magnetism and induced e.m.f.; electron flow in squirrel-cage rotor setting up magnetic poles which create torque; construction of squirrel-cage rotors. Animation. Supplementary filmstrip, same title, also available. (*OE 385; 10 minutes*)
..... 32, 41

Stability
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. (How an Airplane Flies Series No. 5) How to achieve complete stability so airplane will tend to return to normal flight if pitched, rolled or yawed. (*10 minutes*)
..... 7

Stainless Steel
U.S. Bureau of Mines in cooperation with Allegheny Ludlum Steel Corp., 1943. Cost of waste through rust and corrosion; resisting quality of stainless steel; making stainless steel. (*29 minutes*)
..... 17

Standard Rate Turns
U.S. Department of the Air Force, 1942. (Instrument Flying and Landing Series) Use of Link Trainer to demonstrate procedure for making standard rate turns. (*TF 1–529; 12 minutes*)
..... 7

Standing Waves on Transmission Lines
U.S. Department of the Navy, 1945. (Radio Technician Training Series) Causes, results, and prevention of standing waves in radio high frequency transmission lines. Animated diagrams; laboratory demonstrations; diverse analogies. (*MN 1540–k; 23 minutes*)
..... 7, 41

Star Identification
U.S. Department of the Navy, 1943. (Navigation Series) Apparent movement of the stars across the sky; 23 basic navigation stars, including Duthe, Polaris, Arcturus, Spica, Regulus, Vega, Betelguese, Sirius and several important constellations. (*MN 83–f; 16 minutes*)
..... 7, 41

Static Test
U.S. Department of the Air Force, 1942. (Airplane Structures Series) Forms, kinds and purposes of static testing; laboratory methods used to test various component parts of aircraft against original specifications and design. (*TF 1–312; 12 minutes*)
..... 7, 32, 41

The Steel Rule
U.S. Office of Education, 1941. (Machine Shop Work Series. Precision Measurement No. 1) How to read steel rules; use the flexible hook and rule-type depth gages and combination squares; and lay out holes with a combination square. Supplementary filmstrip, same title, also available. (*OE 1; 14 minutes*)
..... 32, 41

Steel Town
U.S. Office of War Information, Overseas Branch, 1945. The steel mills, the blast furnaces, and lives of steel workers, illustrated by the town of Youngstown, Ohio. (*16 minutes*)
..... 32, 41

Steep Turns and Spirals
U.S. Department of the Navy, 1947. (Primary Flight Training Series) How to execute steep turns and spirals; scenes of aircraft in flight from pilot's cockpit and observation plane. (*MN 3474–o; 11 minutes*)
..... 7

Steering, Wheels, Front and Rear Axles
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 8) How to check for play in the steering wheel, and the front end assembly; correct wheel runout; make a toe-in test; and test springs, axles, and overall backlash. Supplementary filmstrip, same title, also available. (*OE 484; 19 minutes*)
..... 32, 41

Stem Rust
U.S. Department of Agriculture, 1950. Nature, damage caused by, and control of stem rust; life cycle of fungus; how it destroys wheat, oats, barley, and rye; how to control it by destroying hosts. (*14 minutes, color*)
..... 32, 41

A Step-Saving Kitchen
U.S. Department of Agriculture, 1948. Modern farm kitchen designed and built by Bureau of Human Nutrition and Home Economics to combine attractiveness and efficiency with minimum of stooping or bending in work area arrangement. (*14 minutes, color*)
..... 32, 41

Stern Launching, DD445 Class
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Over-all view of technical operations involved in stern-type launching of destroyer; terms peculiar to this operation. (*MN 2351–b; 19 minutes*)
..... 41

Stillwell Road
U.S. Department of the Army, 1945. How American forces built new supply route to Chinese armies and U.S. air bases through mountains and jungles in Burma campaign. (*CR 3; 52 minutes*)
..... 32, 41

Store It Right
U.S. Department of the Army, 1945. How Army is supplied with war materials; comparison of fundamental principles of Army depot warehousing in zone of interior, communications zone, and combat zone. (*TF 10–2086; 15 minutes*)
..... 41

Story of a Dog
U.S. Coast Guard, 1945. Training of Coast Guard War Dog from entry into boot camp until day he helps capture a Japanese sniper overseas: how to discipline dogs. (*10 minutes*)
..... 21

Story of a Rescue
U.S. Economic Cooperation Administration, 1950. Basic economic facts of life behind the Marshall Plan; how gains made in any one area through elimination of artificial trade barriers could benefit entire world. Cartoon film. Entitled also "History of A Rescue." (*7 minutes, color*)
..... 24

Story of a Transport
U.S. Coast Guard, 1945. Career of 24,000 ton Transport *Wakefield*, transferred luxury liner *Manhattan;* bombing at Singapore; burning in Atlantic; refitting; transporting troops to battle zones. (*18 minutes*)
..... 21

Story of Arc Welding
U.S. Bureau of Mines in cooperation with The Lincoln Electric Co., 1950. Arc welding; advantages over cast iron and riveting; techniques; forms of welded joints; uses, domestic, industrial, and military. Previously released as "Magic Wand of Industry: Arc Welding." (*24 minutes, color*)
..... 17

The Story of Asbestos
U.S. Bureau of Mines in cooperation with Johns-Manville Corp., 1938. Sources and mining of asbestos in Arizona and Asbestos, Quebec; making asbestos textiles; their use; manufacture of various types of insulation and other products using asbestos fibers. (*30 minutes, silent*)
..... 17

Story of Copper
U.S. Bureau of Mines in cooperation with Phelps Dodge Corp., 1945. Prehistoric use of copper; open-pit mining, Morenci, and underground mining, Bisbee, in Arizona; milling, smelting and electrolytic refining. (*34 minutes*)
..... 17

The Story of Gasoline
U.S. Bureau of Mines in cooperation with Standard Oil Co. (Indiana), 1948. Composition, manufacture, and action of gasoline; gasoline industry and manufacturing methods; uses of naphtha, kerosene, lubricating oils, fixed gas, and coke. Animation. Revision of "Gasoline's Amazing Molecules" released by the Standard Oil Co. (Indiana). (*23 minutes, color*)
..... 17

A Story of Lead
U.S. Bureau of Mines in cooperation with St. Joseph Lead Co., 1948. Underground mining in Southeast Missouri's lead belt; crushing and concentration of ores, smelting, refining and other steps in producing pig lead for industrial use. Animated drawings. (*29 minutes*)
..... 17

Story of Lubricating Oil
U.S. Bureau of Mines in cooperation with Standard Oil Co. (Indiana), 1949. Lubricating oil production and processing; types of lubricating-oil refining equipment; additives used for improvement; control and performance tests. (*21 minutes, color*)
..... 17

The Story of Nickel
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1946. Production and preparation of nickel and its alloys; power plants; mine; smelter; refinery and rolling mill. (*30 minutes*)
..... 17

A Story of Nickel Refining
U.S. Bureau of Mines in cooperation with The International Nickel Co., Inc., 1950. Operation of nickel refinery; transportation of fuel and concentrates; reverbatory-type furnaces; water-cooled anode casting wheel; electrolytic tank house; making of nickel shot and ingots, black nickel oxide and nickel cathodes. (*22 minutes*)
..... 17

The Story of Rock-Wool Home Insulation
U.S. Bureau of Mines in cooperation with Johns-Manville Corp., 1942. Home insulation procedures; causes of drafts and heat loss. Use of rock-wool, manufacture and installation. Animation. (*25 minutes*)
..... 17

The Story of a Spark Plug
U.S. Bureau of Mines in cooperation with Champion Spark Plug Co., 1948. Principles of internal combustion; manufacture and use of spark plugs; parts of a spark plug; testing and installation; causes of faulty performance. (*33 minutes*)
..... 17

The Story of a Storage Battery
U.S. Bureau of Mines in cooperation with Willard Storage Battery Co., 1947. Principle, invention, and early history of the storage battery; chemical reactions involved in charging and discharging a battery; factory operations in manufacture; industrial and domestic uses of batteries. Silent version, same title, also available. (*32 minutes*)
..... 17

The Story of a Storage Battery
U.S. Bureau of Mines in cooperation with Willard Storage Battery Co., 1931. Invention and early history of the storage battery; its use in automobiles and various manufacturing processes; and its

manufacture. Animated drawings visualize action in battery while charging and discharging. Sound revision, same title, also available. (*30 minutes, silent*)

..... 17

The Story of Wendy Hill

U.S. Public Health Service and the American Diabetes Association, 1949. Story of a young wife who finds she has diabetes, becomes frightened, seeks the advice of her doctor, and learns that with the help of insulin she can continue to lead a normal healthy life. Presented jointly by the U.S. Public Health Service and the American Diabetes Association. (*19 minutes, color*)

..... 26, 32, 41

Straddle and Surface Milling to Close Tolerances

U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Milling Machine No. 2) How to rough mill four sides of solid bar stock and finish the same piece to a given size and shape. Supplementary filmstrip, same title, also available. (*OE 13; 27 minutes*)

..... 32, 41

Straddle Milling

U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Milling Machine No. 3) How to straddle mill the bosses on connecting rods to the proper width when the connecting rods are held in a fixture. Supplementary filmstrip, same title, also available. (*OE 14; 17 minutes*)

..... 32, 41

Straight and Level Flight

U.S. Department of the Air Force, 1943. Effect of controls and how they work; part played by thrust, drag, lift and gravity in operation of an airplane; importance of body posture and use of trim tabs. For pilots. (*TF 1–3307; 17 minutes*)

..... 7

Straps and (Transportation) Bridles

U.S. Department of the Army, 1943. (Military Stevedoring Series No. 5) How to attach straps and bridles to various types of draughts, handle in vertical position and use dunnage properly. (*TF 55–1119; 14 minutes*)

..... 41

Strategic Air Power

U.S. Department of the Air Force, 1950. Mission of Strategic Air Command and how S.A.C. men and planes carry out this mission; authentic World War II combat scenes show importance of long range bombing and establishment of strategic concept; B–36 training flight; mid-air refueling of B–50 medium bombers; B–29's raid on Korean targets. (*SFP 260; 25 minutes*)

..... 11, 41

Strength of the Hills

U.S. Department of Agriculture, 1941. Role of forests in community life of Ohio hill country and Ozark Mountains; need for forest fire prevention. (*11 minutes*)

..... 3, 32, 41

Striking Back Against Rabies

U.S. Public Health Service, 1950. (Rabies Control Series) Typical county rabies epidemic checked by joint emergency control measures of county health department, state public health veterinarian and federal rabies control expert. (*CDC–4–087; 11 minutes*)

..... 27, 41

Structural Units, Materials, and Loads for Which Designed

U.S. Department of the Air Force, 1941. (Airplane Structures Series) The four structural units of an airplane; fuselage, wings, control surfaces, and landing gear; positive and negative loads which each must withstand. (*TF 1–211; 8 minutes*)

..... 7, 32, 41

A Study of Air Flow in an Engine Cylinder

U.S. National Advisory Committee For Aeronautics, 1938. Technical film: title self-explanatory. (*17 minutes, silent*)

..... 28

Study of Airflow by Means of Smoke

U.S. National Advisory Committee For Aeronautics, 1942. Technical film; title

self-explanatory. Long version "Smoke Flow; Lift and Drag." (*33 minutes, silent*)
..... **28**

A Study of Combustion in a Spark-Ignition Engine
U.S. National Advisory Committee For Aeronautics, 1938. Technical film; title self-explanatory. (*17 minutes, silent*)
..... **28**

Subgrade Preparation
U.S. Department of the Army, 1943. (Military Roads Series No. 5) Planning earth-moving operations to create best subgrade; mixing sand and clay; locating subgrade to prevent failure from water; and creating artificial subgrade on marshy ground. (*TF 5–1197; 9 minutes*)
..... **41**

Sugarcane
U.S. Department of Agriculture, 1939. History of Louisiana's sugarcane industry; growing and harvesting; manufacture of sugar; introduction and development of disease-resistant varieties; cooperative research of Federal and State agencies. Third prize, Internatioanl Exposition of Agricultural Films, Rome, May 20–27, 1940. Short version "Cane Sugar" also available. (*21 minutes*)
..... **32, 41**

Suggestion Box
U.S. Office of War Information, Domestic Branch, 1944. How war plant workers are being encouraged to submit suggestions, to effect a saving in time, labor, and materials, for increased production. How workers' suggestions have resulted in improved methods of manufacture. (*10 minutes*)
..... **32, 41**

Suggestion Power
U.S. Department of the Army, 1944. How the War Department suggestion program, "Ideas for Victory," worked to improve efficiency in war production. (*M 1100; 18 minutes*)
..... **41**

Sulphur
U.S. Bureau of Mines in cooperation with Texas Gulf Sulphur Co., Inc., 1947. Geographical location of sulphur deposits; Frasch method of recovering sulphur deposits in salt domes; collecting stations and storage vats; cooling, drilling, blasting, weighing, loading, and distribution for various uses. Silent b&w version, same title, also available. (*20 minutes, color*)
..... **17**

Sulphur
U.S. Bureau of Mines in cooperation with Texas Gulf Sulphur Co., Inc., 1930. Geological location of sulphur deposits; Frasch method of recovering sulphur deposits in salt domes; collecting stations and storage vats; cooling, drilling, blasting, weighing, loading, and distribution for various uses. Sound color revision, same title, also available. (*30 minutes, silent*)
..... **17**

Summary of Results of Model Ditching Investigations of Five Transport Airplanes
U.S. National Advisory Committee For Aeronautics, 1949. Technical film; title self-explanatory. (*17 minutes, silent*)
..... **28**

Sundays in the Valley of Mexico
U.S. Coordinator of Inter-American Affairs, 1942. Sunday recreation in Mexico City; modern life in ancient surroundings; boulevards, skyscraper hotels, flower-decked canal at Xochimilco, festival, bull fight, beauty parade. (*11 minutes, color*)
..... **32, 41**

Sunset Division: 41st Division
U.S. Department of the Army, 1950. Combat engagements of the famed 41st Division in World War II. (*M 7730; 15 minutes*)
..... **12, 41**

Sunset in the Pacific
U.S. Coast Guard, 1945. Service pictures of action in Pacific battle zones; film dedicated to Army, Navy, Marine Corps

and Coast Guard photographers and correspondents. (*20 minutes, color*)
..... 21

Superheat Control
U.S. Department of the Navy, 1944. (Fireroom Operation Series) How to light off saturated furnace; light superheater when steam reaches 600 lbs; increase superheat temperature; and secure superheater. (*MN 2356-f; 11 minutes*)
..... 41

Supervising Women Workers
U.S. Office of Education, 1944. (Problems in Supervision Series) Frank Brooks, plant manager, advises Joe Haley, foreman, to remember that women workers haven't the same industrial experience as men and very often have more home responsibilities; and to take these facts into account in his supervision. (*OE 158; 11 minutes*)
..... 32, 41

Supervising Workers on the Job
U.S. Office of Education, 1944. (Problems in Supervision Series) Dramatized incidents illustrating good and poor methods of supervision, including the necessity for obtaining the confidence of workers and the dangers of "snoopervising." (*OE 157; 10 minutes*)
..... 32, 41

The Supervisor as a Leader. Part 1
U.S. Office of Education, 1944. (Problems in Supervision Series) Four dramatized episodes illustrating poor supervisory practices and the importance of the following rules: Always keep promises. Never take credit for someone else's work. Don't pass the buck. Don't play favorites. (*OE 168; 14 minutes*)
..... 32, 41

The Supervisor as a Leader. Part 2
U.S. Office of Education, 1944. (Problems in Supervision Series) Four more dramatized instances of poor supervision leading to the following generalizations: Be a leader not an authoritarian. Show appreciation for a job well done. Do not become angry. Protect the rights and feelings of workers. (*OE 169; 13 minutes*)
..... 32, 41

Suppling Exercises
U.S. Department of the Army, 1942. (Horsemanship Series No. 4) Conditioning of the muscles and parts of the body in riding. Exercises used to supple muscles and parts of the body most used in riding—neck, shoulders, loins, hip joints, knees, and ankles. (*TF 2-603; 16 minutes*)
..... 41

Surgical Approach to Scapulohumeral Joint (Shoulder)
U.S. Veterans' Administration, 1949. Surgical approach to shoulder joint from anteral, lateral and posterial angles to avoid possible injury before reaching seat of trouble; correction of dislocation; osteotomy; removal of calcified deposit in musculotendinous cuff by longitudinal splitting of deltoid. Animation, live action. For professional personnel and medical students. (*20 minutes*)
..... 31

Surgical Approaches to the Elbow Joint
U.S. Veterans' Administration, 1951. Animated diagrams of anterior and posterior aspects of knee joint; operations employing approaches to the anterior and posterior aspects and to the medial and lateral semilunar cartilages; each operation recapitulated in animated diagrams. For students in surgery and anatomy and residents in orthopedic training. (*39 minutes; color*)
..... 31, 41

Surgical Approaches to the Knee Joint
U.S. Veterans' Administration, 1951. Animated diagrams of anterior and posterior aspects of knee joint; operations employing approaches to the anterior and posterior aspects and to the medial and lateral semilunar cartilages; each operation recapitulated in animated diagrams. For students in surgery and anatomy and

residents in orthopedic training. (*37 minutes, color*)
..... **31, 41**

Surgical Approaches to the Scapulo-humeral Joint
U.S. Veterans' Administration, 1950. Animated diagrams of bones, ligaments, muscles, tendons, and neurovascular structures; surgical operations utilizing anterior, posterior, and muscle-splitting incisions; each operation recapitulated in animated diagrams. For students in surgery and anatomy and residents in orthopedic training. (*36 minutes, color*)
..... **31, 41**

Surgical Dressings
U.S. Department of the Navy, 1944. (Care of the Sick and Injured by Hospital Corpsmen Series) How to check dressing cart for use at surgical bedside; how to work with medical officer while dressing is changed; how to do it alone. (*MN 1511–s; 12 minutes*)
..... **41**

Survivor Recovery and Handling
U.S. Coast Guard, 1947. (Search and Rescue Series. Standardization of Crew Training for Search and Rescue Craft) Training film for crews of SAR craft smaller than OS Vessels; survivor drill from deck of 125 ft. ship alongside; how to use survival suits, flotation litter, small boats; Eve's Method of resuscitation on survivor on deck. (*5 minutes, color*)
..... **41**

Sustained Operations
U.S. Department of the Air Force, 1949. Practice maneuvers of B–29 squadron at Okinawa: phases of training and carrying out missions. (*SFP 249; 11 minutes*)
..... **11, 32, 41**

The Svea-Newport Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Exchange of signals and crash of *Svea* and *Newport* off California; investigation and court decision. Animation. (*MN 202–t; 5 minutes*)
..... **41**

Swab Your Choppers
U.S. Department of the Navy, 1948. Animated cartoon illustrating correct method of cleaning teeth. (*MN 6602; 10 minutes, color*)
..... **41**

Swaging Cable Terminals
U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 3) How to measure and to mark the cable accurately; set up the swaging machine; check work; and remove and clean machine parts. Supplementary filmstrip, same title, also available. (*OE 298; 12 minutes*)
..... **32, 41**

Swedes in America
U.S. Office of War Information, Overseas Branch, 1945. America and Americans, especially those of Swedish descent. (*16 minutes*)
..... **32, 41**

Swimming. Part 1: The Beginner
U.S. Department of Agriculture, 1939. Primary steps: how to breathe, kick, and float. Short version of "Learn To Swim," also available. (*5 minutes*)
..... **32, 41**

Swimming. Part 2: Getting Afloat
U.S. Department of Agriculture, 1939. Primary strokes: dog paddle, beginners crawl, and finning. Short version of "Learn To Swim," also available. (*5 minutes*)
..... **32, 41**

Swimming. Part 3: Advanced Strokes
U.S. Department of Agriculture, 1939. Advanced strokes and kicks: frog, scissors, and flutter kick; crawl, breast, and overhand stroke. Short version of "Learn To Swim," also available. (*5 minutes*)
..... **32, 41**

Swinging Into Step
U.S. Department of the Army, 1945. Treatment given amputees; some of the

psychological problems. Rehabilitation and morale film for amputees. (*TF 8–2083; 33 minutes*)
..... 41

Swimming Through Burning Oil and Through Surf
U.S. Coast Guard, 1943. How to jump from a ship into water on which there is burning oil and how to swim through the flames. (*10 minutes*)
..... 41

Synchro Systems. Part 1
U.S. Department of the Navy, 1944. (Radio Technician Training Series) How synchro generator affects and controls movement of synchro motor; how angular motion electrically transfers between two remote points. Model and still photography. Supplementary filmstrip, same title, also available. (*MN 1540–w; 15 minutes*)
..... 41

Synchro Systems. Part 2
U.S. Department of the Navy, 1944. (Radio Technician Training Series) Operation of control transformer and differential synchro generator; checks in trouble shooting; how to use control transformer as receiver; use of differential synchro generator while putting corrections in signal of the circuit. Supplementary filmstrip, same title, also available. (*MN 1540–x; 13 minutes*)
..... 41

Synthetic Rubber
U.S. Bureau of Mines in cooperation with Goodyear Tire & Rubber Co., Inc., 1944. History of rubber; research and production of synthetic rubber; characteristics of natural and synthetic rubber; important types of synthetic rubber; possible sources of rubber; future objectives of scientists. Animated charts. Released also as "American Success Story" by Goodyear Tire & Rubber Co., Inc. (*21 minutes*)
..... 17

Syphilis. Part 1: Diagnosis of Early Syphilis
U.S. Public Health Service in cooperation with the Cooperative Clinical Group and State Health Departments, 1942. Symptoms and diagnosis of primary, secondary and congenital syphilis: darkfield and blood tests; physical examination; premarital blood test; and chain of infection. (*15 minutes, color*)
..... 26

Syphilis. Part 2: Diagnosis of Late and Latent Syphilis
U.S. Public Health Service in cooperation with Cooperative Clinical Group and State Health Departments, 1942. Symptoms and diagnosis of late, congenital and latent syphilis: routine blood tests; x-ray, physical and spinal fluid examinations; history; interpretation of tests; and treatment with arsenic and bismuth compounds (This sequence is outdated). For medical and nursing personnel. (*15 minutes, color*)
..... 26

Take a Letter, Please
U.S. Department of the Navy, 1943. Burlesques common faults of dictators, such as: scatterbrain, speed demon, dreamer, mumblemush, and Simon Legree. How to dictate and use Ediphone and Dictaphone. (*MN 1562–c; 21 minutes*)
..... 7, 32, 41

Take-Offs
U.S. Department of the Air Force, 1943. Ground-check before take-off; engine starting; taxiing; take-off; climbing; and, level flight, using Air Force BT–13A plane. For pilots. (*TF 1–3305; 25 minutes*)
..... 7

Take-Offs
U.S. Department of the Navy, 1946. (Primary Flight Training Series) How to taxi; plane captain's hand signals for getting off line; how airplane's attitude changes from taxiing to flying stage; importance of smooth positive throttle

application during take-off; correction of common mistakes. (*MN 3474–h; 19 minutes*)
..... 7

Take Time for Tomorrow
U.S. Department of the Army, 1949. Educational opportunities available to all military personnel while in service from illiteracy to college level; off-duty study, classroom attendance, and correspondence courses. Released as "Armed Forces Education: Take Time For Tomorrow" by U.S. Department of the Navy. (*OF 55; 14 minutes*)
..... 12, 41

Taking a Blood Pressure
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to locate artery; read pressure on gauge; operate equipment; how mercury drops to point of pressure while heart beat is heard. (*MN 1511–g; 7 minutes*)
..... 41

Taking Medicine
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) Necessity for taking medicine and dire results of not taking pills. Humorous cartoon. (*MN 2808–a; 6 minutes*)
..... 41

Talking to the Italians
U.S. Economic Cooperation Administration, 1950. Frank report to Americans and Italians on how press, radio, film, fairs, traveling exhibits and even troubadours bring the people an explanation of Marshall Plan aid operation; its extent, and how it helps each individual directly or indirectly. (*20 minutes*)
..... 24

Tachometer Repair
U.S. Department of the Air Force, 1943. (Aircrafts Instruments Series) Disassembly and reassembly of C–9 chronometric tachometer; various service checks; function of parts; how to adapt procedures for C–2 and C–7 tachometers. (*TF 1–770; 30 minutes*)
..... 7

Tale of Two Cities
U.S. Department of the Army, 1946. Documentary record of the effects of the atomic bombing of Hiroshima and Nagasaki. (*ANSM 74; 12 minutes*)
..... 32, 41

Taming a Wild River
U.S. Department of the Army, 1946. How the work of the Corps of Engineers provided the Missouri River with flood control and navigable channels. (*24 minutes, color*)
..... 13

Tanglewood: Music School and Music Festival
U.S. Department of State, 1950. Serge Koussevitsky conducts the Boston Symphony Orchestra at the Tanglewood, Mass., music festival; scenes of students studying at the school. Released through U.S. Office of Education for educational use in the United States (*21 minutes*)
..... 41

The Tank-Armored Infantry Team
U.S. Department of the Army, 1949. Tactical employment of tank-armored infantry team in armored division; comparative strength of tanks and infantry; utilization in varying situations; tank-armored infantry team formed out of battalion; typical march formation. (*TF 17–1515; 26 minutes*)
..... 41

Tanks
U.S. Office of Emergency Management, 1942. Documentary account of the manufacture and performance of the M–3 Army tank: assembling, testing and shipping overseas. (*10 minutes*)
..... 32, 41

Target for Today
U.S. Department of the Air Force, 1944. Effectiveness of strategic bombing by Eighth Air Force upon German industry and how Luftwaffe was forced to withdraw from offensive action. Purpose, plan, and execution of a daylight precision bombing mission. Combat footage. (*SFP 189 or TF 1–3384; 93 minutes*)
..... 11

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Target Invisible
U.S. Department of the Air Force, 1945. How radar scope is used and work of the radar operator in a bomber's crew operating against an enemy fleet over Japan. (*SFP 199; 8 minutes*)
..... **11, 32**

Target Tokyo
U.S. Department of the Air Force, 1948. Documentary record of B–29 crew from early training in Grand Island, Nebraska, through a bombing mission to Tokyo; the trip, bombing operation, and return flight to Saipan. (*SFP 153; 22 minutes*)
..... **11, 32**

Task Force
U.S. Coast Guard, 1943. Coast Guard in convoy of task force from home port to invasion beach. (*18 minutes, color*)
..... **21**

Task Force Frigid
U.S. Department of the Army, 1948. Record of a military exercise held near Ladd Field, Alaska, to test the operating efficiency of men and equipment in extremely cold, dry climate. Excerpts included in "Task Force Frigid; V–2 Rocket: Assembling and Launching." (*M 1360; 37 minutes*)
..... **41**

Task Force Frigid; V-2 Rocket: Assembling and Launching
U.S. Department of the Army, 1948. Personnel and equipment tests in severely cold climate; V–2 rocket tests at White Sands Proving Ground. Includes excerpts of "Task Force Frigid" and "V–2 Rocket: Assembling and Launching." (*AFSR 92; 18 minutes*)
..... **41**

Task Force Frost
U.S. Department of the Army, 1948. Tests to determine the suitability and performance of standard and experimental equipment for Arctic warfare. (*M 1341; 25 minutes*)
..... **41**

The Tawrus-Gulf Trade Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) How tanker *Gulf Trade* crashed into rear of barge string while attempting to pass; how hurrying is cause of most overtaking collisions. (*MN 202–p; 3 minutes*)
..... **41**

Taxiing Collisions
U.S. Department of the Navy, 1947. (Primary Flight Training Series) How to avoid taxiing collisions. Cartoon. (*MN 4353–h; 5 minutes*)
..... **7**

Taxiing in Heavy Weather
U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How to taxi in cross, up, and tail winds; take advantage of weathercocking; use sea anchor; sail plane to objective if wind prevents turning. (*MN 1338–e; 12 minutes*)
..... **41**

Taxiing in Moderate Winds
U.S. Department of the Navy, 1943. (Fundamentals of Patrol Plane Handling Series) How to taxi on water, up and down wind; at various angles, on turns; effect of wind direction, water current and course on plane's heading; how to correct weathercocking. (*MN 1338–d; 24 minutes*)
..... **41**

Teaching Crutch Walking
U.S. Office of Education, 1945. (Nursing Series) How to teach the patient to walk in a walker; the various methods of crutch walking—two-point, four-point, and swinging; to sit, rise, and climb stairs; and the safety factors involved in crutch walking. Supplementary filmstrip, same title, also available. (*OE 422; 13 minutes*)
..... **32, 41**

Teamwork and You
U.S. Department of the Army, 1950. Importance of cooperation and teamwork in the development of the United States; importance of teamwork in Army operations. (*AFIF 6; 10 minutes*)
..... **12**

A Technique for Amalgam Restoration
U.S. Department of the Navy, 1944. (The U.S. Naval Dental Corps Operative Series) How to prepare compound cavity; restore lost tooth structure with amalgam; administer local anesthetic, drill, fill, smooth, polish, apply mold for below gum filling; instruments used; x-ray conformity of bite. Special film for dental personnel. (*MN 2149; 20 minutes, color, silent*)
..... 41

The Technique of Diving
U.S. Department of the Navy, 1944. (Deep Diving Series) How to dress, check equipment and descend; importance of dress tenders, telephone and descending lines, knowledge of diving conditions and diving skill. (*MN 105–c; 24 minutes*)
..... 41

Technique of Hand Sending
U.S. Department of the Navy, 1944. (Radio Operator Training Series) Parts of transmitter: knobs, contacts, tension spring, adjusting springs, and adjusting contacts; elements of Morse code; timing and parts of body that function when transmitting code. (*MN 2621–b; 9 minutes*)
..... 7, 41

Technique of Instruction in the Army. Part 1: Foundations
U.S. Department of the Army, 1945. How to approach trainee's mind through the senses; use these senses more fully with questions and answers; and create "two-way traffic" between instructor and pupil. (*M 1137; 15 minutes*)
..... 41

Technique of Instruction in the Army. Part 2: Structures
U.S. Department of the Army, 1945. Good and faulty planning of matter, manner, and method; how "prepared" improvization can help to keep a class alert and interested. (*M 1138; 22 minutes*)
..... 41

Technique of Instruction in the Army. Part 3: Methods
U.S. Department of the Army, 1945. How instruction may be imparted to troops: lecture, lesson, discussion and combination of all three; how subject, class, and circumstances determine choice of methods. (*M 1139; 25 minutes*)
..... 41

Techniques of Group Chest X-Ray Services
U.S. Public Health Service with the cooperation of U.S. Office of Education, 1946. Covers procedures to be followed in the administration and operation of miniature film mass radiography programs, and shows new developments. For professional audience. (*20 minutes*)
..... 26, 32, 41

Tehuantepec
U.S. Coordinator of Inter-American Affairs with cooperation of Tourist Department of Mexico and Mexican Tourist Bureau, 1943. Tourist view of village life and traditions; scenes of wedding party and fruit festival. (*10 minutes, color*)
..... 32, 41

Telling the Story
U.S. Economic Cooperation Administration, 1950. How E.C.A. information reaches Austrians constantly through their newspapers, radios and films, through special displays, fairs, posters and contests; includes excerpts, from "The World in Film," E.C.A. produced weekly newsreel, with original German commentary. (*25 minutes*)
..... 24

Temperature, Pulse, and Respiration
U.S. Department of the Navy, 1943. (Care of the Sick and Injured by Hospital Corpsmen Series) How to take temperature; locate and take pulse; take respiration. (*MN 1511–i; 14 minutes*)
..... 41

Tennessee Valley Authority
U.S. Tennessee Valley Authority in cooperation with Advisory Commission of

Council of National Defense, 1941. Work and accomplishments of TVA; how multi-purpose dams operate to help control floods; aid navigation and produce power; how dams are constructed; agricultural work, rural electrification, research and reforestation. (*20 minutes*)
..... **30, 40**

Ten Thousand Fires
U.S. Tennessee Valley Authority, 1942. Damage done by forest fires; how to prevent this waste. (*20 minutes, color*)
..... **30, 40**

Tension Testing
U.S. Office of Education, 1944. (Engineering Series) How a hydraulic tension testing machine operates; how to prepare the machine and a specimen for a test; conduct the test to determine the specimen's elastic limit, yield point, and ultimate strength. Supplementary filmstrip, same title, also available. (*OE 348; 21 minutes*)
..... **32, 41**

Terracing in the Northeast
U.S. Department of Agriculture, 1939. Terracing in the soil conservation program; planning system, outlets for excess water; laying out terrace lines on contour; and machine operations. (*11 minutes*)
..... **4, 32, 41**

Texas and Its Natural Resources
U.S. Bureau of Mines in cooperation with Texas Gulf Sulphur Co., 1950. (State Film Series) Mineral and energy resources; agriculture; cattle and sheep raising; transportation facilities; industrial development; climate; and scenery. (*43 minutes, color*)
..... **17**

Then It Happened
U.S. Department of Agriculture, 1948. Documentary record of Maine forest fire of 1947; scenes of raging fires; destroyed farms and villages; need for forest fire prevention and adequate fire control. Judged best film in general safety, 1948, National Committee on Films for Safety. (*10 minutes, color*)
..... **3, 32, 41**

That Men May Fly
U.S. Department of the Air Force, 1949. Research activities and accomplishments of the Office of the Air Surgeon, the School of Aviation Medicine, and the Aero Medical Laboratory. (*SFP 236; 28 minutes*)
..... **11, 32, 41**

Theory and Principles of Operation, Automatic Shifting Unit
U.S. Department of the Army, 1943. (Hydramatic Transmission Series No. 2) Chart analysis of different oil pressures in hydraulic control system of engine and action of pump; action of different parts of automatic shifting system and path of oil in diagram; transmission action at various speeds. (*TF 9–1002; 15 minutes*)
..... **41**

Theory and Principles of Operation, Fluid Coupling and Gear Train
U.S. Department of the Army, 1943. (Hydramatic Transmission Series No. 1) Principles of operation and use of fluid coupling in combat vehicles; use of different gears, shafts, ratios, and clutch pressure plates. (*TF 9–1001; 26 minutes*)
..... **41**

Therapeutic Exercise: Introduction
U.S. Department of the Army, 1947. (Professional Medical Films Series No. 5034. Therapeutic Exercise No. 1) Overall view of therapeutic exercise in Army medicine; how much can be accomplished through exercise in rebuilding broken bones. (*PMF 5034; 17 minutes*)
..... **41**

Therapeutic Exercise: Orthopedics
U.S. Department of the Army, 1947. (Professional Medical Films Series No. 5051. Therapeutic Exercise No. 2) Technique employed in treating serious injuries of the knee joint; prescribed and supervised program of continuous and

progressive exercise. Revision. (*PMF 5051; 28 minutes*)
..... 41

Therapeutic Exercise: Thoracic Surgery
U.S. Department of the Army, 1947. (Professional Medical Films Series No. 5056. Therapeutic Exercise No. 4) Postoperative problems and specific details regarding pre-operative exercises; treatment and exercise a patient receives until he is discharged from the hospital. Revision. (*PMF 5056; 28 minutes*)
..... 41

Therapeutic Uses of Heat and Cold. Part 1: Administering Hot Applications
U.S. Office of Education, 1945. (Nursing Series) Body reactions to heat; how to apply hot water bottles, electric pads, chemical pads, and paraffin bath; use hot soak, compresses, infra-red lamp, and shortwave diathermy. Supplementary filmstrip, same title, also available. (*OE 408; 21 minutes*)
..... 32, 41

Therapeutic Uses of Heat and Cold. Part 2: Administering Cold Applications
U.S. Office of Education, 1945. (Nursing Series) Body responses to cold; how to administer contrast baths and ice bags; apply ice packs as anesthesia; use refrigerating blankets and cold chamber. Supplementary filmstrip, same title, also available. (*OE 409; 22 minutes*)
..... 32, 41

There's More Than Timber in Trees
U.S. Department of Agriculture, 1942. History of lumber industry in New England, Lake States, South, and Northwest; effect of cutting practices; need for nationwide program to conserve forests. (*33 minutes, color*)
..... 3, 32, 41

They Came to An Island
U.S. Department of the Navy, 1948. Seabee activities in World War II; how they build bases, make roads and lay out landing fields in record time. (*MN 5834; 35 minutes*)
..... 14

They Deliver the Goods: Supply and Depots
U.S. Department of the Army, 1943. How men and women of the Army Transportation Corps carry supplies to the troops; embarkation under fire in South Pacific; behind-the-lines supply depots. (*WF 12; 20 minutes*)
..... 32, 41

The Third Pillar
U.S. Department of the Air Force, 1948. Work and achievements of Air Force Engineers. (*SFP 229; 18 minutes*)
..... 11, 32, 41

This Is Aluminum
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1947. Mining and preparation of aluminum; fabrication of metal and its alloys; demonstration of versatility and suitability for fabrication; display of manufactured articles. Sound revision of "Aluminum: Mine to Metal." (*29 minutes*)
..... 17

This Is Ecuador
U.S. Coordinator of Inter-American Affairs, 1942. Ecuador's past and future; resources flora and fauna; architecture, modern life in Guayaquil; and strategic importance of Galapagos Islands to Panama Canal. (*18 minutes*)
..... 32, 41

This Is Recovery
U.S. Economic Cooperation Administration, 1950. History, mechanics and purposes of the Marshall Plan; precise operation of counterpart funds. (*8 minutes*)
..... 24

This Is Worth Working For
U.S. Veterans' Administration, 1946. Story of VA; what it is and does and how it serves the veteran. Orientation

film for VA employees. A trailer. (*28 minutes*)
..... 31

"Thou Shalt Have Faith"
U.S. Department of the Army, 1951. Army Field Band Choral Group singing well-known hymns. "Ave Maria" and "The Lord is My Shepherd." Religious paintings are used as visual accompaniment. (*M 7806; 7 minutes*)
..... 12

Three Cities
U.S. Office of War Information, Domestic Branch, 1944. How war workers in three American cities, seafaring, manufacturing and rural centers, solved wartime living problems with community school, recreation and other projects. (*10 minutes*)
..... 32, 41

Three Counties Against Syphilis
U.S. Public Health Service, 1939. Illustrates methods used in Georgia to locate cases of syphilis and to provide treatment in city and community. (*17 minutes*)
..... 26, 32, 41

Three-Phase Motor. Part 1: Preparing to Rewind
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 4) How to interpret and record nameplate data of a three-phase motor; identify the line and finish leads; remove coils and determine coil span; use a coil winding machine; and end-tape machine wound coils. Supplementary filmstrip, same title, also available. (*OE 395; 17 minutes*)
..... 32, 41

Three-Phase Motor. Part 2: Rewinding
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 5) How to insert mush coils and separators or "willies"; fold, trim, and wedge slot insulation around windings; insert phase insulation; make a delta connection. Supplementary filmstrip, same title, also available. (*OE 396; 17 minutes*)
..... 32, 41

Three-Wire Service Entrance
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to mount and connect an outdoor meter connection box; mount and connect a service control box; ground a three-wire service entrance installation; install concentric service entrance cable. Animation. Supplementary filmstrip, same title, also available. (*OE 374; 24 minutes*)
..... 32, 41

Thrufeed Grinding a Straight Pin. Part 1
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 1) Principle of centerless grinding; the basic elements of the centerless machine; how to set up the machine and true the grinding and regulating wheels. Animation. Supplementary filmstrip, same title, also available. (*OE 85; 29 minutes*)
..... 32, 41

Thrufeed Grinding a Straight Pin. Part 2
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 2) How to balance the grinding wheel; position the work for grinding; adjust the work guides; take the trial grind; eliminate taper in the workpiece; use a crown cam to dress the grinding wheel; and check the workpieces. Supplementary filmstrip, same title, also available. (*OE 81; 28 minutes*)
..... 32, 41

Thrust
U.S. Civil Aeronautics Administration in cooperation with Shell Oil Co., 1949. (How an Airplane Flies Series No. 3) How thrust moves airplanes forward; reaction principle, its derivation and application to airplanes. (*6 minutes*)
..... 7

Thunder from the Sky
U.S. Department of the Air Force, 1950. How Tactical Air Force provides constant close air support to ground forces in Korea. Includes authentic combat sequences. (*SFP 264; 14 minutes*)
..... **11, 41**

Thunderstorms
U.S. Department of the Navy, 1943. (Aerology Series) How thunderclouds form; alternative procedures for pilot encountering storms. Animation and straight photography. (*MN 119–c; 39 minutes*)
..... **7, 32**

El Tifo
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Kill the Louse." Portuguese version "Guerra ao Piolho" also available. (*8 minutes, color*)
..... **37**

La Tifoidea
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "The Typhoid Carrier." Portuguese version "Febre Tifoide" also available. (*9 minutes, color*)
..... **37**

Timber and Totem Poles
U.S. Department of Agriculture, 1949. Terrain and natives of Tongass National Forest, Alaska; value of timber; art of totem carving revived by CCC under auspices of U.S. Forest Service. (*10 minutes, color*)
..... **3, 32, 41**

Timber Growing Today
U.S. Tennessee Valley Authority (Forestry Department), 1947. How sustained-yield management of forest is economically sound; how Tennessee Valley woodland owners are beginning to adopt the timber growing idea. Photographed on Wayne Co., Tenn., lumber company timberland. (*15 minutes, color*)
..... **30, 40**

Time
U.S. Department of the Air Force, 1942. (Celestial Navigation Series) Various time elements in celestial navigation which are used in solving practical exercises. (*TF 1–546; 10 minutes*)
..... **32, 41**

Time. Parts 1, 2 and 3
U.S. Department of the Navy, 1943. (Navigation Series) Divides the globe into time zones, time into apparent, sidereal, and mean time; use of chronometer; three means of computation of time and its reckoning. Animated diagrams. (*MN 83–e; 57 minutes*)
..... **7, 41**

Time in the Air
U.S. Department of the Navy, 1943. (Navigation Series) How to determine error of aircraft navigational watch; use in celestial navigation; make observations of sun preparatory to solving astronomical triangle. (*MN 83–n; 12 minutes*)
..... **7**

Tin From Bolivia
U.S. Bureau of Mines in cooperation with Patino Mines & Enterprises Consolidated, Inc., 1945. Industrial uses of tin; primitive and modern methods of tin mining; concentration and purification of tin bullion. (*20 minutes*)
..... **17**

Tinning and Solder Wiping
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 4) How to clean copper tubing for tinning; apply flux to copper; tin copper tubing by hand and by dipping. How copper reacts to heat when being tinned and solder wiped. Supplementary filmstrip, same title, also available. (*OE 343; 26 minutes*)
..... **32, 41**

Tinplate
U.S. Bureau of Mines in cooperation with Weirton Steel Co., 1949. Ancient and modern tin-plate production methods; conversion of iron ore, coke, scrap, and limestone into molten metal, bars of steel, and thin sheet steel coils; coating coils with tinplate by hot-dip and electrolytic methods. (*27 minutes, color*)
..... **17**

To Hear Again
U.S. Department of the Army, 1947. (Professional Medical Films Series) Army's aural rehabilitation program; testing, treatment, and social rehabilitation; use of hearing aids and lip reading; stories of several patients. Primarily for patient education. Revision. (*PMF 5052; 37 minutes, color*)
..... **32, 41**

To Live in Darkness
U.S. Department of the Navy, 1944. Necessity for Navy yard workers to wear goggles to prevent blindness from accidents. (*MN 1921–f; 14 minutes*)
..... **32**

To the Ladies
U.S. Department of the Army, 1944. Plea for help in caring for war wounded in Army hospitals; duties and services of Women's Army Corps hospital technicians. (*M 1030; 15 minutes*)
..... **41**

To the People of the United States
U.S. Public Health Service in cooperation with California Department of Public Health, 1944. Direct appeal for individual blood tests and public discussion to help solve the nation's venereal disease problem. (*24 minutes*)
..... **26**

To the Shores of Iwo Jima
U.S. Department of the Navy, 1945. Terrific struggle of Marines against most heavily fortified island in the Pacific; naval barrage, aerial bombing, strafing, amphibious invasion and scenes of individual combat. Another version, same title, also available. (*MN 5124; 20 minutes, color*)
..... **14**

To the Shores of Iwo Jima
U.S. Marine Corps and U.S. Department of the Navy, 1945. Struggle for Iwo Jima: naval barrage; aerial bombing and strafing; amphibious invasion; fanatical Japanese resistance; final American victory; scenes of individual action, Mt. Suribachi flag-raising. Another version, same title, also available. (*18 minutes, color*)
..... **15**

Le Toca A Ud
U.S. Public Health Service, 1945. (Controlamiento de la Fiebre del Dengue y de la Fiebre Amarilla) Spanish version of "It's Up To You." (*CDC 4-016.1; 17 minutes, color*)
..... **27**

Today's Chicks
U.S. Department of Agriculture, 1950. National Poultry Improvement Plan to improve breeding qualities and reduce losses from pullorum; program of typical hatchery; selecting breeders; pullorum testing; and sanitation procedures. (*18 minutes, color*)
..... **32, 41**

Tomorrow We Fly
U.S. Department of the Navy, 1943. How the pilot is trained and the dive bomber built; pre-flight training and assembly plant scenes. (*MN 1254; 21 minutes*)
..... **41**

Tongass Timberland
U.S. Department of Agriculture, 1948. Tongass National Forest, Alaska; its fishing industry and undeveloped potential lumber industry; need for proper utilization for local welfare and national security. (*20 minutes, color*)
..... **3, 32, 41**

Topical Fluorides: Technic of Application
U.S. Public Health Service, 1949. Accepted technic of application of sodium fluoride to teeth. For dental personnel. (*11 minutes, color*)
..... **26**

Topographic Mapping By Photogrammetric Methods
U.S. Geological Survey, 1947. How Topographic Branch of Geological Survey uses modern technical procedures in making standard topographic quadrangles, including multiplex mapping. (*90 minutes, color*)
..... **19**

Topsoil
U.S. Department of Agriculture, 1948. (Soil Conservation Series No. 1) Top-

soil; value to city and country; characteristics; origin; destruction by improper farming methods; and conservation farming practices for maximum production. (*11 minutes*)

..... 4, 32, 41

Torch Welding
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1946. (How to Weld Aluminum Series) Preparation of surfaces and flux mixtures; manipulation of torch; examples of torch welding of aluminum forgings; castings; sheet and plate; proper and improper procedures. (*17 minutes*)

..... 17

Torneo de uma Peça Fixa num Suporte
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabalho de Oficina Mecânica. Usos Do Tômo de Precisão) Portuguese version of "Turning Work Held on a Fixture." Spanish version "Torneo de una Pieza Fija en el Sosten" also available. (*OE 58–Port.; 21 minutes*)

..... 41

Torneo de uma Peça no Mandril
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabalho de Oficina Mecânica. Usos Do Tômo de Precisão) Portuguese version of "Turning Work Held on a Mandrel." Spanish version "Torneo de una Pieza en el Mandril" also available. (*OE 61–Port.; 20 minutes*)

..... 41

Torneo de una Pieza en el Mandril
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabajo de Taller Mecánico. Usos del Tomo de Precisión) Spanish version of "Turning Work Held on a Mandrel." Portuguese version "Torneo de uma Peça no Mandril" also available. (*OE 61–Span.; 20 minutes*)

..... 41

Torneo de una Pieza Fija en un Sostén
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabajo de Taller Mecánico. Usos del Tomo de Precisión) Spanish version of "Turning Work Held on a Fixture." Portuguese version "Torneo de uma Peca Fixa num Suporte" also available. (*OE 58–Span.; 21 minutes*)

..... 41

Torque Converter: Principles of Operation
U.S. Department of the Army, 1945. Principles, parts, and operation of torque converter; how torque is generated by water wheel; parts and operation of converter in relation to water wheel analogy; how torque converter can function as clutch and transmission, giving a smoother operation to both. (*TF 9–1427; 20 minutes*)

..... 41

Toward Independence
U.S. Department of the Army, 1947. (Professional Medical Films Series) How modern developments in medicine have made it possible for the victims of paraplegia, resulting from spinal cord injuries to become independent, well adjusted citizens. (*PMF 5055; 30 minutes*)

..... 32, 41

Towards a Uniform Plumbing Code
U.S. Housing and Home Finance Agency, 1948. How National Bureau of Standards conducted tests to solve three controversial problems in plumbing, namely, self-siphonage of fixture traps, stack venting and wet venting. (*27 minutes*)

..... 41

Towing a Disabled Plane
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) How OSV approaches and throws a line to disabled PBM on surface at sea; making line fast and actual towing with precautions to be

taken in handling and towing. (*8 minutes, color*)
..... 41

Towing Lights
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) Light specifications for tows up to and over 600 ft. in length; lights for submerged tows, vessels in tow, barges, canal boats, scows and dump scows in N. Y. harbor. (*MN 202–e; 7 minutes, color*)
..... 41

Towing Operations: Ocean Towing as Applied to Wooden Rescue Tugs
U.S. Department of the Navy, 1945. Photographic record of convoy of 205 fleet tugs; 165 wooden and 143 steel rescue tugs; design, construction, equipment, methods and problems of towing vessels. Orientation film. (*MN 4368; 17 minutes*)
..... 41

The Town
U.S. Office of War Information, Overseas Branch, 1945. Life in a typical American town—Madison, Indiana; contribution of people of various nationalities to American culture; equal educational opportunities in schools and public library; freedom of expression in the local newspaper; democratic town government. (*12 minutes*)
..... 32, 41

A Town in Old Mexico
U.S. Coordinator of Inter-American Affairs with cooperation of Tourist Department of Mexico and Mexican Tourist Bureau, 1944. Villages of Puebla, Orizaba, and Fortinde de las Floras; 17th Century architecture, flowers, etc. (*10 minutes, color*)
..... 32, 41

Trade Training In the Navy
U.S. Department of the Navy, 1950. Title self-explanatory. (*MN 6674; 14 minutes, color*)
..... 41

Traffic Patrols and Escorts
U.S. Department of the Army, 1949. Techniques for area and organization traffic control; procedures for traffic patrols and escorts. (*TF 19–1579; 22 minutes*)
..... 41

Trail to Health
U.S. Bureau of Indian Affairs, 1949. How two Pueblo boys who learn they have tuberculosis from mobile X-ray unit are cured; Indian homelife woven into story. (*20 minutes, color*)
..... 34

Trail to Health
U.S. Bureau of Indian Affairs, 1949. Navajo language version of motion picture with same title. (*20 minutes, color*)
..... 34

Trailer 201
U.S. Department of State, 1949. Role of three truck drivers operating large trailer trucks on local and cross-country hauls in trucking industry; views of trucking business, Eastern landscapes, highways, farms, small towns, and Chicago industrial center. Released through U.S. Office of Education for educational use in the United States. (*40 minutes*)
..... 32, 41

Training Aids: Classroom Utilization
U.S. Department of the Navy, 1950. How good Navy instructor conducts classroom lesson with use of training aids achieving student participation in learning process. (*MN 6753–b; 15 minutes*)
..... 32, 41

Training Aids: Selection and Planning
U.S. Department of the Navy, 1950. How Navy instructor selects and plans use of training aids; fits motion pictures, still pictures, charts, models, and mock-ups into lesson plan; how to check classroom, equipment, and aids prior to use. (*MN 6753–a; 16 minutes*)
..... 32, 41

Training in Operation Plans Between the Ocean Station and a Ditching Plane MG-5380b
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) Plane ditching operation; operations shots of Search and Rescue Control Center in Coast Guard District HQ in New York. (*10 minutes, color*)
..... **41**

Training War Dogs. Part 1: The Faculties of a Dog; Basic Exercises
U.S. Department of the Army, 1943. How a dog is taught to heel, sit, lie down, come to attention, hurdle a three-and-a-half foot wall, and finally to relax. (*TF 10–1256; 21 minutes*)
..... **41**

Transfer Molding: Molding a Part with Inserts
U.S. Office of Education, 1945. (Plastics Series No. 5) How transfer molding differs from compression molding; how to mold a part by the transfer method; and coordinate the steps of the molding cycles. Animation. Supplementary filmstrip, same title, also available. (*OE 470; 10 minutes*)
..... **32, 41**

Transfer of a Patient At Sea
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) How to transfer patient from OSV by small boat to SAR PBM plane to be transported to shore facilities; precautions in transfer; jato-takeoff after transfer. (*7 minutes, color*)
..... **41**

Transit Traverse for Topographic Mapping
U.S. Geological Survey, 1951. Title self-explanatory. Technical, college and professional level. (*30 minutes, color*)
..... **19**

Transmissao das Doencas
U.S. Office of Inter-American Affairs, 1945. (Salud para as Americas) Portuguese version of "How Disease Travels" formerly entitled "Transmission of Disease." Spanish version "La Enfernedad Se Propaga" also available. (*11 minutes, color*)
..... **37**

Transmission, Drive Shaft, and Differential
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 9) How to check the transmission gear shift mechanism, drive shaft, and differential; and test their running condition. Supplementary filmstrip, same title, also available. (*OE 485; 14 minutes*)
..... **32, 41**

The Transition Piece, Square to Round Layout and Fabrication
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sheetmetal Work) Triangulation method in development of a pattern from making blueprint to full scale plan; cutting the metal; dressing; hammering; and checking for squareness. Supplementary filmstrip, same title, also available. (*MN 2339–d; 17 minutes*)
..... **41**

Transmission Security
U.S. Department of the Navy, 1944. (Radio Operator Training Series) How radio operator might reveal a location or aid enemy in sneaking out messages, sending unauthorized messages, and cutting in. (*MN 2621–d; 19 minutes*)
..... **41**

Transplanting Hen's Ova
U.S. Department of Agriculture, 1948. Transplanting unfertilized eggs from one hen to another; eggs subsequently fertilized, laid, and hatched. (*8 minutes, color*)
..... **32, 41**

The Transportation and Communication Systems of Japan
U.S. Department of the Army, 1945. Modern and primitive transportation in Japan: privately owned transportation, state-owned rail facilities, and government-

subsidized communications. (*M 1061; 30 minutes*)
..... **41**

Treasure from the Sea
U.S. Bureau of Mines in cooperation with Dow Chemical Company, 1951. Boundless availability, lightness and uses of magnesium; how use of magnesium has increased range and pay load of planes; how use of this lightest of structural metals saves energy. Animation. (*11 minutes, color*)
..... **17**

Treasure Trove of Jade
U.S. Coordinator of Inter-American Affairs with the cooperation of National Geographic Society and Smithsonian Institution, 1942. Archeological expedition to Vera Cruz; excavation of 2000-year old civilization; early American sculpture; jade deposits. (*37 minutes, color*)
..... **32, 41**

Treatment of Jaw Fractures
U.S. Department of the Navy, 1943. How to apply jaw splints including extra-oral fixations with vulcanite attachment. For medical personnel. (*MN 1053; 25 minutes, color, silent*)
..... **41**

Treatment for Paresis of the Superior Oblique
U.S. Department of the Navy, 1943. (Eye Surgery Series) Actual operation on patient with general anesthesia; how lid is depressed; eyeball incised; and tendons are tied. Special film for medical personnel. (*MN 2477–a; 7 minutes, color*)
..... **41**

A Tree Grows for Christmas
U.S. Department of Agriculture, 1949. Christmas tree in history and legend; Christmas tree industry: cutting, marketing, and handling. (*11 minutes, color; also b&w*)
..... **3, 32, 41**

Tree in a Test Tube
U.S. Department of Agriculture, 1942. Products of wood and their testing; how Forest Products Laboratory, Madison, Wisconsin, has developed new and better uses for wood. (*11 minutes*)
..... **3, 32**

The Tree of Life
U.S. Department of Agriculture, 1938. Value of forests to national life; U.S. Forest Service's aims and achievements in forest management; methods advocated for forest perpetuation; principle of "sustained yield." (*19 minutes*)
..... **3, 32, 41**

Trees to Tame the Wind
U.S. Department of Agriculture, 1940. Prairie States field windbreaks and shelterbelts planted by U.S. Forest Service and cooperating farmers in 1935 to protect land from wind and drought. (*12 minutes*)
..... **3, 32, 41**

Trench Foot
U.S. Department of the Navy, 1945. (Medicine in Action Series No. 6) Clinical condition and treatment of trench foot in Italian theater; physiological and structural changes in tissues; preventive measures before injuries; prevention of further damage after injury. Special film for medical personnel. (*MN 3726–f; 11 minutes, color*)
..... **41**

Trigger Squeeze
U.S. Department of the Army, 1943. (Rifle Marksmanship with the M–1 Rifle, Preparatory Training Series No. 3) Taking up the slack of the trigger and applying smooth even pressure while firing; direct results of uneven pressure; complete method of checking—reaction of the eye, trigger squeeze, and body position. (*TF 7–1094; 20 minutes*)
..... **41**

The Triode: Amplification
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 3) Principles of the diode and triode; electric fields; a triode amplifier circuit; amplification of D.C. voltage changes; alternating voltages; distortion; amplification of audio frequency signals. Anima-

tion. Supplementary filmstrip, same title, also available. (*OE 177; 14 minutes*)
..... **32, 41**

A Trip to Sicily
U.S. Economic Cooperation Administration, 1950. How the Sicilians aided by E.R.P. funds are developing the natural resources of their rich but backward country; scenes of Sicily, open-air amphitheatre in Taormina, Palermo cathedral, etc. (*10 minutes*)
..... **24**

The Triple Threat Team
U.S. Marine Corps, 1950. How the three branches of the Marine Corps are used in tactical formations. Television film trailer. (*1 minute*)
..... **15**

Troop Movement By Air
U.S. Department of the Army, 1949. Capabilities, methods of loading, computation of loads, and flight safety for passengers aboard the C–84. (*TF 7–1510; 30 minutes*)
..... **41**

Troop Train
U.S. Office of War Information, Domestic Branch, 1943. How the Army moved the 201st Armored Division—tanks, trucks, half-tracks, motorcycles, jeeps, guns, and men—across the country from "X" to "Y". (*11 minutes*)
..... **32, 41**

Trouble Shooting Problems: Fuel Induction
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to trouble shoot the fuel system for failure to develop full power, for rough running at idling speed, and for over-heating. Supplementary filmstrip, same title, also available. (*OE 276; 16 minutes*)
..... **7, 32, 41**

Trouble Shooting Problems: Ignition
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to locate trouble within the ignition system when an engine fails to start, when it runs rough, and when it fails to develop full power. Supplementary filmstrip, same title, also available. (*OE 275; 19 minutes*)
..... **7, 32, 41**

Trouble Shooting Problems. Mechanical and Lubrication
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) How to find what part of the engine is causing trouble; the importance of checking obvious symptoms when trouble shooting. Supplementary filmstrip, same title, also available. (*OE 274; 10 minutes*)
..... **7, 32, 41**

Trouble Shooting Your Car
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 5) What a driver should do to locate and correct minor car troubles; and how to recognize symptoms of impending trouble. Supplementary filmstrip, same title, also available. (*OE 490; 12 minutes*)
..... **32, 41**

The True Fade System
U.S. Department of the Navy, 1945. (Instrument Flight Control Series. Orientation) How to accomplish true fade method of radio range orientation; when and where most practical; how square sector, closed sector, open sector, wind, terrain and distance affect method. (*MN 1059–ad; 8 minutes*)
..... **7**

The True Glory
U.S. Department of the Army, 1945. Activities of European Theatre of Operations as related by soldiers themselves: preinvasion, actual landings, battles, siege of Bastogne, and meeting with Russians. Gen. Eisenhower opens picture. (*M 1211; 83 minutes*)
..... **12, 32, 41**

Truing Balance Wheels
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 10) How work capabilities of patients with physi-

cal disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Truly Yours: The Dress That Fits
U.S. Department of Agriculture, 1949. How to check fitting points in ready-made dresses; commonly needed alterations for tall slender, medium stout, and short plump figures; home alteration methods. (*18 minutes, color*)
..... **32, 41**

The Truman Story; They're in the Army Now
U.S. Department of the Army, 1948. Brief glimpses in the life of President Harry S. Truman. Recruiting and inducting procedures. (*AFSR 100; 17 minutes*)
..... **41**

Tsutsugamushi Prevention
U.S. Department of the Navy, 1945. How Medical Department combats scrub typhus; impregnation of clothing; clearing of camp sites; use of repellents; other preventive measures. Animation. (*MN 5041–a; 27 minutes*)
..... **41**

Tube and Shape Bending
U.S. Bureau of Mines in cooperation with Aluminum Co. of America, 1944. (How to Form Aluminum Series) Techniques, problems, and principal factors of hand, power, cold and hot bending. Use and care of tools needed. (*14 minutes*)
..... **17**

Tube Bending by Hand
U.S. Office of Education, 1943. (Aircraft Work Series) Why tubes must be bent for installation in airplanes; how to set up the tube bending machine for the job; and how the various parts of the machine function. Supplementary filmstrip, same title, also available. (*OE 142; 15 minutes*)
..... **32, 41**

Tube Tester Operation
U.S. Department of the Navy, 1944. (Radio Technician Training Series) How to use testers to check cathode emission and dynamic mutual conductance of tube; use of tube manual and instruction book. (*MN 1540–p; 9 minutes*)
..... **7, 41**

A Tuberculose
U.S. Office of Inter-American Affairs, 1945. (Salude para as Americas) Portuguese version of "Tuberculosis." Spanish version "La Tuberculosis" also available. (*10 minutes, color*)
..... **37**

Tuberculosis
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) Nature, diagnosis, and processes of infection and preventive measures of tuberculosis. Animated cartoon. Portuguese version "A Tuberculose" and Spanish version "La Tuberculosis" also available. (*10 minutes, color*)
..... **32, 37**

La Tuberculosis
U.S. Office of Inter-American Affairs, 1945. (Salud para las Americas) Spanish version of "Tuberculosis." Portuguese version "A Tuberculose" also available. (*10 minutes, color*)
..... **37**

Tuberculosis in Poultry and Swine
U.S. Department of Agriculture, 1941. Occurrence of disease, especially in North Central States; transmission from poultry to swine; symptoms and appearance of affected tissues; procedures for eradication. (*20 minutes*)
..... **32, 41**

Tuesday in November
U.S. Office of War Information, Overseas Branch, 1945. Portrays 1944 presidential election; the opening of polling booth in school in California town; emphasis on the right to a secret ballot, the system of government in the United States and the various offices to be filled by the election. (*22 minutes*)
..... **32, 41**

Tulsa
U.S. Department of the Army, 1950. Historical documentary of Tulsa. (*CAD; 17 minutes*)
..... **41**

Turning a Cylinder Between Centers
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 1) How to choose and center stock for a job; mount stock in the wood lathe for turning between centers; use the parting tool and the skew chisel; sand turning work. Supplementary filmstrip, same title, also available. (*OE 313; 17 minutes*)
..... **32, 41**

Turning a Taper With the Tailstock Set Over
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Engine Lathe No. 6) How to calculate tailstock offset for cutting tapers, and to turn a taper. Supplementary filmstrip, same title, also available. (*OE 44; 17 minutes*)
..... **32, 41**

Turning Brass and Hand Gravers. Part 1
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 5) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Turning Brass and Hand Gravers. Part 2
U.S. Veterans' Administration, 1949. (Light Mechanics Series No. 6) How work capabilities of patients with physical disabilities are discovered through light mechanics procedures. (*15 minutes*)
..... **31**

Turning Taper Work
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 2) How to center cylindrical wood stock for spindle turning; make clearance cuts; establish the diameters of a taper; turn a single taper; establish diameters for turning two tapers from a single piece of material; turn the tapers. Supplementary filmstrip, same title, also available. (*OE 314; 12 minutes*)
..... **32, 41**

Turning the Tide
U.S. Department of the Army, 1950. Action in Korea from August 10, to September 20, 1950; animation and actual combat footage; attack and counterattack on the ground and tactical and strategic UN air support; UN Forces capture Inchon; and advance to outskirts of Seoul. (*CB 102; 22 minutes*)
..... **12**

Turning Work Held on a Fixture
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 10) How to mount an irregularly shaped casting which cannot be held in a chuck; mount and center the fixture on a lathe; and grind tools for the machining of brass. Supplementary filmstrip, same title, also available. Portuguese version "Torneo de Uma Peça Num Suporte" and Spanish version "Torneo de Una Pieza Fija en un Sostén" also available. (*OE 58; 21 minutes*)
..... **32, 41**

Turning Work Held on a Mandrel
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 13) What a mandrel is, and on what type of job it can be used to advantage; how to fit the mandrel into the workpiece; cut a bevel, using the compound rest; calculate speed and feed; and set the controls. Supplementary filmstrip, same title, also available. Portuguese version "Torneo De Uma Peca No Mandril" and Spanish version "Torneo De Una Pieza En El Mandril" also available. (*OE 61; 20 minutes*)
..... **32, 41**

Turning Work in a Chuck
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 4) How to mount work on a faceplate; turn one face of the work; make a chuck for the opposite face; fit the finished face to the chuck; turn the second face. Supplementary filmstrip, same title, also available. (*OE 316; 15 minutes*)
..... **32, 41**

Turning Work of Two Diameters
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Engine Lathe No. 2) How to rough-turn, finish-turn, and face a gear shaft with a collar. Supplementary filmstrip, same title, also available. (*OE 7; 14 minutes*)
..... **32, 41**

Turning Work on a Face Plate
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 3) Types of faceplates; how to attach the stock to the face plate; true up the work; scribe the work for inside turning; use the round-nose and diamond point chisels; smooth the bottom of the recess. Supplementary filmstrip, same title, also available. (*OE 315; 15 minutes*)
..... **32, 41**

The Turret Lathe: An Introduction
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 1) Functions of the head, hexagon turret, square turret, and bed; how to determine the sequence of operations; take a multiple cut; combine cuts from the hexagon and square turrets. Supplementary filmstrip, same title, also available. (*OE 212; 17 minutes*)
..... **32, 41**

Twelve Nations Sign North Atlantic Pact
U.S. Department of the Army, 1950. How North Atlantic Pact was signed; Secretary of State Acheson and President Truman state the purpose of the Pact and the mutual benefits to member nations. (*M 7563; 14 minutes*)
..... **41**

29th Infantry Division
U.S. Department of the Army, 1949. (Pride of the Outfit Series) History of "Blue and Grey" Infantry Division in training; amphibious maneuvers in England; combat in Normandy, St. Lo, Brest, and Germany; junction with Russian Army at end of war. (*M 7554; 20 minutes*)
..... **12**

Two Half Hitches and a Round Turn
U.S. Coast Guard, 1943. Why round turn and two half hitches are used for mooring small craft; how to tie. (*3 minutes*)
..... **41**

Types and Use At High Altitudes
U.S. Department of the Air Force, 1942. (Oxygen Equipment Series) Characteristics and operation of 6 types of Air Force Oxygen Masks, A–7 Nasal, A–8 and A–8–A Oral Nasal, A–8–B Twin Turret, and A–10 Demand Type; checking, cleaning masks and regulators before flight, and oxygen installations on airplanes. (*TF 1–487; 24 minutes*)
..... **7**

Types, Construction, and Action
U.S. Department of the Air Force, 1942. (Airplane Hydraulic Brakes Series) Principles of operation and parts of Bendix single and duo servo brakes; Hayes single shoe, single and duo servo, and single and double expander tube brakes; and Goodyear disc type brakes. (*TF 1–305; 30 minutes*)
..... **7, 32, 41**

The Typhoid Carrier
U.S. Institute of Inter-American Affairs, 1947. How the typhoid bacillus may be transmitted by milk, water, and flies and especially by an unwitting human "Carrier." Indicates precautionary measures. Portuguese version "Febre Tifoide" and Spanish version "La Tifoidea" also available. (*9 minutes, color*)
..... **32, 37**

Typhus in Naples
U.S. Department of the Navy, 1944. (Medicine in Action Series No. 2) Shows latest developments in typhus control; typhus epidemic which followed invading Germans. Edited combat footage. Special film for medical personnel. (*MN 3726–b; 11 minutes, color*)
..... **41**

UCLA
U.S. Department of State, 1948. Higher education at University of California at Los Angeles; student life; student government; athletics; social events; class-

room activity; student self-support. Released through U.S. Office of Education for educational use in the United States. (*44 minutes*)
..... **32, 41**

UN Forces Consolidate Below 38th Parallel
U.S. Department of the Army, 1951. Korean action, December 20, 1950, to January 20, 1951; UN Troops withdraw below 38th Parallel; Navy evacuation of troops at Hungnam and Inchon; Air Force action showing destruction of harbors, munition planes, etc. in wake of withdrawal. (*CB 106; 20 minutes*)
..... **12**

UN Forces Escape Trap
U.S. Department of the Army, 1951. Activities in Korea, November 20 to December 20, 1950; U.S. Third Division fighting principal holding action; sea evacuation of entire X Corps from Hungnam; air-drop of destruction of abandoned supplies and equipment; and interrogation of Chinese prisoners. (*CB 105; 16 minutes*)
..... **12**

UN Forces Move North
U.S. Department of the Army, 1951. Activities in Korea, January 20 to February 20, 1951; UN Forces capture Suwon and move northward to Han River. (*CB 107; 17 minutes*)
..... **12**

UN Offensive
U.S. Department of the Army, 1950. Operations in Korea from September 20 to October 20, 1950; recapture of Seoul; 11th Airborne Division flying to Korea from Japan and paratroops dropping behind enemy lines; Al Jolson entertaining UN Troops. (*CB 103; 21 minutes*)
..... **12**

Uncinariasis
U.S. Institute of Inter-American Affairs, 1946. (Salud para las Americas) Spanish version of "Hookworm." Portuguese version "Uncinariose (Opilacao)" also available. (*10 minutes, color*)
..... **37**

Uncinariose (Opilacao)
U.S. Institute of Inter-American Affairs, 1946. (Salud para as Americas) Portuguese version of "Hookworm." Spanish version "Uncinariasis" also available. (*10 minutes, color*)
..... **37**

Underwater Demolition Team
U.S. Department of the Army, 1949. How Navy "Frogmen" swim in ahead of assault waves, locate and destroy mines and obstacles in surf and on beach in secret and with split-second timing. Films shot on maneuvers. (*M 7579; 9 minutes*)
..... **14**

Union and the Community
U.S. Department of the Army, 1950. How Chester, Pa., Union Council helps to develop social agencies greatly needed by the community. (*18 minutes*)
..... **32, 41**

The United Nations in World Disputes
U.S. Department of the Army, 1950. Four major disputes threatening world peace since 1945: Indonesia, Palestine, India, and Korea and how UN successfully resolved each one. (*AFSR 123; 21 minutes*)
..... **32, 41**

U.S. Naval Academy
U.S. Department of the Navy, 1947. Life at U.S. Naval Academy showing typical midshipman activities. (*MN 5318; 39 minutes, color*)
..... **14**

U.S. Navy Armored Life Jackets
U.S. Department of the Navy, 1944. How glass, non-metallic, doron plates inserted in standard life jacket protect against small arms fire, flak, and shell fragments. Experiments conducted. (*MN 9026; 7 minutes*)
..... **41**

United We Stand
U.S. Department of the Army, 1949. American Legion Convention, Philadelphia, August 1949; 1st Secretary of Defense Johnson reports on unification;

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Legion parade; Gen. Clay at National Commander's dinner; Philadelphia's historic shrines. (*AFSR 112; 21 minutes*)
..... 41

Up From the Ranks
U.S. Marine Corps, 1951. Opportunities and procedures by which an enlisted Marine may obtain a commission. Television film trailer. (*1 minute*)
..... 15

The Upper Extremity
U.S. Department of the Navy, 1944. (Amputations Series No. 3) How to perform Guillotine amputation on upper extremity. (*MN 3429–c; 16 minutes, color*)
..... 41

Uruguay
U.S. Coordinator of Inter-American Affairs, 1945. Agriculture, economic well-being, and social and political life of the people of Uruguay; comparison with the United States. (*19 minutes*)
..... 32, 41

Use and Care of Fiber Rope
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series. Rigging) How to care for, inspect, and use fiber ropes; comparison of sisal, manila and jute; methods of splicing and eyeing. (*MN 2340–b; 21 minutes*)
..... 41

Use and Care of Wire Rope
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Rigging) Construction, use and protective qualities of wire rope; how to handle to avoid kinks; seizing, eye splice, frieze fitting, and the thimble. (*MN 2340–a; 35 minutes*)
..... 41

The Use of Aircraft for Insect Control. Part 1: Mosquito Control
U.S. Public Health Service, 1949. (Malaria Control Series) Mosquito control program situations suitable for aircraft; materials and equipment adapted for aircraft dissemination; procedures; and, operations methods of maximum effectiveness and economy. (*CDC–4–077; 13 minutes*)
..... 27, 41

Use of Chemical Materials as Shark Repellents
U.S. Department of the Navy, 1944. Experimental work by Naval Research Laboratory in search for effective repellent; final results and manner of using repellent. (*MN 9001; 14 minutes, color*)
..... 41

Use of Radio and Visual Signaling Devices
U.S. Coast Guard, 1947. (Search and Rescue Series. Standardization of Crew Training for Search and Rescue Craft) How Search and Rescue planes and Coast Guard vessel rescued men at sea on rafts: radio distress signals picked up; alert sounded; search; survival-kit and handy-talkie dropped by planes; how rescue ship picked up men after dark; signals used. (*15 minutes, color*)
..... 41

Use of Special Electronic and Visual Search Aids
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) How Ocean Station Vessel and SAR plane search for airmen at sea in life rafts with Gibson Girl transmitter; use of mirror-flashes, orange-smoke, sea dye, and Very pistols by men in rafts and aerial-flares and searchlights by plane and OSV. (*8 minutes, color*)
..... 41

Use of the Parachute
U.S. Department of the Air Force, 1942. (Parachutes Series) Importance of keeping parachutes free of oil, grease, and dirt; how to jump from a plane; how to land in trees and water; how to collapse parachute after landing. (*TF 1–543; 8 minutes*)
..... 7

Use Your Head
U.S. Department of the Navy, 1945. (Ten Commandments for Health Series) To impress forward area troops with

importance of one of most important commandments for health: Use the latrine. (*MN 2808–g; 4 minutes*)
..... 41

Useful Knots
U.S. Department of the Navy, 1942. How to tie the overhand knot, square knot, bowline, sheep bend, half hitch, clove hitch on a pile, clove hitch on a cleat, and rolling hitch. (*MN 70; 23 minutes*)
..... 41

Using a Boring Bar Between Centers: Work Held on a Carriage
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 16) How to set up a boring bar between centers of a lathe; clamp an irregular workpiece on a lathe carriage; and align the workpiece center with the lathe centerline. Supplementary filmstrip, same title, also available. (*OE 64; 22 minutes*)
..... 32, 41

Using a Follower Rest
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 15) What the follower rest is, and when to use it; how to mount the follower rest on the lathe; adjust the jaws of the follower rest to the work; and lubricate the work to prevent damage to the jaws and workpiece. Supplementary filmstrip, same title, also available. (*OE 63; 21 minutes*)
..... 32, 41

Using a Portable Spray Gun
U.S. Office of Education, 1945. (Aircraft Work Series. Finishing) How the pressure tank operates; how to clean portable spray guns; adjust paint, spray, and air controls; stroke while painting; and use the suction type spray gun. Supplementary filmstrip, same title, also available. (*OE 289; 26 minutes*)
..... 32, 41

Using a Shell End Mill
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 1) How the vertical milling machine differs from other milling machines; how to produce a flat surface with a shell end mill; use the sliding head; what speed and feed are, and how to calculate them. Supplementary filmstrip, same title, also available. (*OE 72; 21 minutes*)
..... 32, 41

Using a Steady Rest
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 14) What the steady rest is, and when to use it; how to spot the work for the location of the steady rest; mount the steady rest on the lathe; and adjust the jaws of the rest to the work. Supplementary filmstrip, same title, also available. Portuguese version "O Emprêgo Do Suporte Fixo," and Spanish version "El Uso Del Soporte Fijo." also available. (*OE 62; 25 minutes*)
..... 32, 41

Using a Steady Rest When Boring
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 17) How to mount a long casting on a lathe faceplate; turn a true bearing spot for supporting the workpiece with a steady rest; and position and adjust the steady rest. Supplementary filmstrip, same title, also available. (*OE 65; 21 minutes*)
..... 32, 41

Using Visual Aids in Training
U.S. Office of Education, 1944. (Problems in Supervision Series) An instructor, teaching his class the use of the micrometer, follows a carefully planned procedure involving the use of a training motion picture, a coordinated filmstrip, and an instructor's manual. (*OE 167; 14 minutes*)
..... 32, 41

El Uso del Soporte Fijo
U.S. Office of Education in cooperation with U.S. Office of the Coordinator of Inter-American Affairs, 1945. (Trabajo de taller mecánica. Usos del tomo de precisión) Spanish version of "Using A Steady Rest." Portuguese version "O

Emprego Do Suporte Fixo" also available. (*OE 62–Span; 25 minutes*)
..... **32, 41**

Vaccinate Against Smallpox
U.S. Institute of Inter-American Affairs, 1947. Documents story of mass protection against a disfiguring and killing disease by individual vaccination. Demonstrates multiple pressure technique of vaccination. Portuguese version "Variola" and Spanish version "La Viruela" also available. (*8 minutes, color*)
..... **32, 37**

La Vacuna O Defensa contra La Invasion
U.S. Coordinator of Inter-American Affairs, 1943. Spanish version of "Defense Against Invasion." Portuguese version "Defesa Contra Invasao" also available. (*12 minutes, color*)
..... **37**

Vacuum Tubes: Elementary Electron Theory and the Diode Tube
U.S. Department of the Air Force, 1942. Electron behavior in matter; electron sources in vacuum tubes; symbols of tubes; functioning of tube in a circuit; diode and duo-diode as reflectors. Animated diagrams. (*TF 1–470; 16 minutes*)
..... **32, 41**

Valley of the Giant
U.S. Department of the Army, 1950. (Engineering Series) Flood control plan for Lower Mississippi River Valley; Corps of Engineers' work to date. (*27 minutes, color, also b&w*)
..... **13**

Valley of the Tennessee
U.S. Office of War Information, Overseas Branch, 1944. Activities and achievements of the TVA in providing a better life for the people of the Tennessee Valley region. How flood control made possible better agricultural methods. (*30 minutes*)
..... **30, 32, 41**

Valves: Their Manufacture and Use
U.S. Bureau of Mines in cooperation with Crane Co., 1930. Angle, globe, gate, and check valves; making copper, iron and steel valves; their use with steam, petroleum, in automobiles, trains, airplanes, and in fire fighting. Close-up views and cross sections. (*45 minutes, silent*)
..... **17**

Vaned Elbow: Layout and Fabrication
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sheetmetal Work) How to make a vaned elbow for a ship's ventilation system; development of rough sketch, parallel lines, templates, elbow and vane sections, and final welding. Supplementary filmstrip, same title, also available. (*M 2339–a; 29 minutes*)
..... **41**

The Varanger-Dora Weems Incident
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) How *Dora Weems* overtaking and attempting to pass the *Varanger* in 600 ft. wide channel was drawn into *Varanger* for a crash. (*MN 202–o; 5 minutes*)
..... **41**

Variations: An Entirely Direct Technic
U.S. Department of the Navy, 1945. (Dentistry. Anterior Acrylic Bridgework No. 3) Close-up photography shows in detail the construction of an acrylic bridge. Direct technique is clearly shown. Special film for dental personnel. (*MN 4352–c; 5 minutes, color*)
..... **41**

Variola
U.S. Institute of Inter-American Affairs, 1947. Portuguese version of "Vaccinate Against Smallpox." Spanish version "La Viruela" also available. (*8 minutes, color*)
..... **37**

Vectographs
U.S. Department of the Navy, 1942. How to make the vectograph transparency; equipment used. (*MN 941; 21 minutes*)
..... **41**

Vectors
U.S. Department of the Navy, 1945. (Radio Technician Training Series) Vectors; changes in angle or magnitude; how vectors are plotted; how the resultant is found. (*MN 1540–n; 12 minutes*)
..... **7, 41**

Vehicle Loading and Stowing
U.S. Department of the Army, 1943. (Military Stevedoring Series No. 6) How to load jeeps, trucks, tanks, and locomotives aboard-ship; use nets, straps, and dunnage for lifting; and use soap, grease, and blocks to stow vehicles. (*TF 55–1119; 15 minutes*)
..... **41**

Venezuela
U.S. Coordinator of Inter-American Affairs with the cooperation of the National Geographic Society, 1942. (South American Medley Series No. 1) Scenes of the Andes Mountains from the port of La Guaira to Caracas, capital of Venezuela; sugar plantations; a salute to Simon Bolivar. (*10 minutes, color*)
..... **32, 41**

Venezuela Moves Ahead
U.S. Coordinator of Inter-American Affairs, 1943. Economic, historical, and geographic analysis of Venezuela; industrial progress, especially in oil industry; views of Caracas; animated maps. (*36 minutes, color*)
..... **32, 41**

Veracruz
U.S. Coordinator of Inter-American Affairs with the cooperation of Tourist Department of Mexico and Mexican Tourist Bureau, 1943. Tourist trip through the State of Veracruz; vari-colored flowers, odd native clothes, customs, panorama of countryside. (*19 minutes, color*)
..... **32, 41**

Verniers
U.S. Office of Education, 1941. (Machine Shop Work Series. Precision Measurement No. 4) Principles of the vernier scale and its application in precision measuring. Animation. Supplementary filmstrip, same title, also available. (*OE 4; 19 minutes*)
..... **32, 41**

Vesicular Diseases of Animals
U.S. Department of Agriculture, 1944. Typical condition of hogs affected with vesicular stomatitis; photographed at Animal Disease Station, Agricultural Research Center, Beltsville, Maryland. (*11 minutes, color*)
..... **32, 41**

The Veteran Becomes a Farmer
U.S. Office of Education, 1946. How a farm community can cooperate in giving help and counsel to a veteran wishing to become a farmer. (*OE 398; 30 minutes*)
..... **32, 41**

Veterans and the Land
U.S. Department of Agriculture, 1946. Complexity of farming industry; need for scientific knowledge and improved practices; channels of information and assistance for veterans on farms; value of practical experience on established farms. (*21 minutes*)
..... **32, 41**

Veterans Report No. 1
U.S. Veterans' Administration, 1946. How several veterans, including a double amputee, blind ex-sergeant, and five university students, have made exceptional use of VA benefits. (*10 minutes*)
..... **31**

Veterans Report No. 2
U.S. Veterans' Administration, 1946. How the Sault Ste. Marie, Michigan, High School choir entertained wounded veterans at Mt. Alto Hospital, Washington, D.C. (*10 minutes*)
..... **31**

Veterans Report No. 3
U.S. Veterans' Administration, 1946. Work of VA rehabilitation clinic in New York; how veterans learn pipe-making through on-the-job training: importance of clear, complete information in correspondence with Veterans' Administration. (*10 minutes*)
..... **31**

Veterans Report No. 4
U.S. Veterans' Administration, 1947. Graduation of Red Cross Gray Ladies at VA hospital; ex-Wave taking pilot training; veteran learning glass-blowing trade. (*10 minutes*)
..... **31**

Veterans Sketch Book
U.S. Veterans' Administration, 1948. Bill Downs interviews Wally Brander, VA artist; how cartoon character, Vic Vet, is drawn; importance of writing proper place for VA information. (*7 minutes*)
..... **31**

Veterinary Food Inspection Service. Part 2: Theater of Operations
U.S. Department of the Army, 1949. How Army Veterinary Service inspects food at home and overseas; operations from arrival of cargo ships in port to issue of food products to front-line organizations; how to inspect and care for canned foods. (*FB 228; 16 minutes*)
..... **41**

VHF Airborne Radio Set SCR-522
U.S. Department of the Air Force, 1944. Inspection, maintenance, and checking of airplane transmitting and receiving sets both in plane and repair shop: after flight check; cleaning, lubrication and inspection; work bench testing procedures, reinstallation, and final checking. (*TF 1–3380; 24 minutes*)
..... **7**

Victory In the Air
U.S. Department of the Air Force, 1948. Gen. H. H. Arnold's report to the people; how material produced by war workers was utilized by the Air Force in Europe and Pacific. Important role of research and development. (*SFP 187; 15 minutes*)
..... **11**

The Village That Wouldn't Die
U.S. Economic Cooperation Administration, 1950. How the determined people of Aunay-sur-Odon built and lived in a shanty town on the site of their village demolished during the Normandy liberation until able to erect a modern town complete with hospital with Marshall Aid. American version. (*13 minutes*)
..... **24**

Village Without Water
U.S. Economic Cooperation Administration, 1950. How counterpart funds built the pipeline to bring water to a small Italian town for the first time, one of 350 towns so helped; how these water projects help prevent typhoid by supplying safe water and increasing sanitation facilities. (*10 minutes*)
..... **24**

Village Without Words
U.S. Economic Cooperation Administration, 1950. How Marshall Aid brought hope and the beginning of economic recovery to a small Italian village paralyzed by lack of raw materials for its factory. Pictures and music without narration. Impressionistic technique. (*10 minutes*)
..... **24**

La Viruela
U.S. Institute of Inter-American Affairs, 1947. Spanish version of "Vaccinate Against Smallpox." Portuguese version "Variola" also available. (*8 minutes, color*)
..... **37**

Visual Day Signals
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) International day signals for ships not under command; inland day signals; and other signals such as distress. (*MN 202–i; 13 minutes, color*)
..... **41**

Visualizing an Object
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 1) How a blueprint is developed; dimensions shown by different views; and various kinds of lines used on a blueprint. Supplementary filmstrip, same title, also available. (*OE 51; 9 minutes*)
..... **32, 41**

The Vital Signs and Their Interrelation: Body Temperature, Pulse, Respiration, Blood Pressure
U.S. Office of Education, 1945. (Nursing Series) Physiology of the respiratory, heat regulatory, and circulatory systems and their interrelationships; how to ascertain and record the vital signs; how to take care of equipment. Animation. Supplementary filmstrip, same title, also available. (*OE 406; 32 minutes*)
..... **32, 41**

Voices of the People
U.S. Department of the Army, 1949. Discussion of importance of freedom of speech; tour of Freedom Train; inspection and discussion of Declaration of Independence and Bill of Rights. (*OF 36; 18 minutes*)
..... **32, 41**

Volt Ohmmeter Operation
U.S. Department of the Navy, 1944. (Radio Technician Training Series) How to use various types of volt-ohmmeters, including electronic-meter; cautions to be followed. (*MN 1540–s; 15 minutes*)
..... **7, 41**

Voltaic Cell, Dry Cell, and Storage Battery
U.S. Department of the Army, 1943. (Electricity and Magnetism Series No. 3) Explanation of basic principles involved. (*TF 11–1187; 18 minutes*)
..... **41**

VT Bomb and Rocket Fuzes
U.S. Department of the Army, 1945. Operations of proximity bomb and rocket fuzes and fuzes over land and water. Method of arming and safety precautions to be observed. (*FB 197; 25 minutes*)
..... **41**

V-2 Rocket: Assembling and Launching (White Sands, New Mexico)
U.S. Department of the Army, 1947. V–2 rocket work being carried on at White Sands Proving Ground. Excerpts in "Task Force Frigid; V–2 Rocket: Assembling and Launching." (*FB 219; 20 minutes*)
..... **41**

War Comes to America
U.S. Department of the Army, 1945. Effect of Axis aggression on U.S. public opinion and public awakening to peril exposed in attack on Pearl Harbor. (*OF 7; 65 minutes*)
..... **32, 41**

War on Wheels: Automotive
U.S. Department of the Army, 1943. How automotive industry of United States is prime contributor to success of our modern army on wheels; American medium tanks rescue truck convoy ambushed by German tanks in Tunisia. (*WF 6; 22 minutes*)
..... **41**

The War Speeds Up
U.S. Department of the Army, 1944. How soldiers in combat depend on "Big Four": artillery's big guns and shells, bombs, trucks, and tires; how Allied armies advancing toward Germany were supplied after Normandy beachhead was secured. (*M 1077; 18 minutes*)
..... **41**

The Warm Front
U.S. Department of the Navy, 1943. (Aerology Series) The warm front: formation of dangerous stratified cloud layers; how to avoid them; cirrus, cirrostratus and altostratus clouds; types of visibility, precipitation, and ceiling conditions. (*MN 119–f; 20 minutes, color*)
..... **7, 32**

Wartime Nutrition
U.S. Office of War Information Domestic Branch, 1943. Simple rules of eating for Americans at home, in factories, in restaurants, and cafeterias to prevent undernourishment from poor eating habits. (*10 minutes*)
..... **32, 41**

Water
U.S. Department of Agriculture, 1948. (Soil Conservation Series No. 2) Story of water; numerous values of controlled water; potential destructive power when uncontrolled; disadvantages of too much and too little rain; soil and water con-

servation methods to remedy either situation. (*11 minutes*)
..... **4, 32, 41**

Water for a Nation
U.S. Department of Agriculture, 1949. Value of soil and water conservation to farmers and nation; conservation practices for farmers and ranchers in different regions of country. (*19 minutes*)
..... **4, 32, 41**

Water, Friend or Enemy
U.S. Coordinator of Inter-American Affairs, 1943. Importance of pure water and correct measures in keeping spring and well water from being contaminated. Suggests boiling of water as a final precaution. An animated cartoon. Portuguese version "A Aguas: Nosso Amigo Ouinimigo" and Spanish version "Agua, Amiga o Enemiga" also available. (*9 minutes, color*)
..... **32, 37**

Water in the West
U.S. Bureau of Reclamation, 1951. How men have overcome desert, droughts, and floods; how conservation and use of water resources through multiple-purpose dams, canals, hydropower facilities, etc., have transformed West. (*27 minutes*)
..... **18**

Water on the Land
U.S. Institute of Inter-American Affairs, 1947. How irrigation increases crop production. Demonstrates simple methods of conservation and distribution any farmer may apply to land near a supply of water. Portuguese version "Irrigue a Terra" and Spanish version "Regando la Tierra" also available. (*9 minutes, color*)
..... **32, 37**

Watertight Cover. Part 1: Layout and Fabrication
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sheetmetal Work) How to construct a type F round watertight cover; overall fabrication of lid, hinge, dogs, collar, gasket and combing; complete cover ready for assembly. Full scale, detailed drawings. Supplementary filmstrip, same title, also available. (*MN 2339–b; 13 minutes*)
..... **41**

Watertight Cover. Part 2: Assembly
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Sheetmetal Work) How to weld and assemble combing, lid and collar, locking device, dogs, hinge, screen, and rubber gasket; how chalk test proves correct construction of watertight cover. Supplementary filmstrip, same title, also available. (*MN 2339–c; 18 minutes*)
..... **41**

Wealth of the Andes
U.S. Coordinator of Inter-American Affairs, 1943. Cerro de Pasco mining district in Peruvian Andes; copper and lead mines; Central Railway of Peru. (*19 minutes, color*)
..... **32, 41**

Wearing of the Uniform
U.S. Department of the Army, 1948. How smart appearance while wearing the uniform and good personal conduct of the individual soldier affect his well-being. (*TF 19–1485; 20 minutes*)
..... **41**

Weather Duties
U.S. Coast Guard, 1947. (Search and Rescue Series. Ocean Station Vessel Crew Training in Search and Rescue) OS Vessel weather duties; their relation to oceanic air travel; how plane avoids weather-front after OSV warning; radar tracking of weather-balloon; radio transmission of weather-data back to Weather Bureau. (*5 minutes, color*)
..... **41**

Weather for the Navigator
U.S. Department of the Navy, 1944. How each navigator is a member of a vast network of observers, sending his limited information by radio to professional forecasters at weather centrals.
..... **7**
(*MN 3112–a; 9 minutes*)

Weather in Various Parts of an Occluded Wave
U.S. Department of the Air Force, 1943. (Modern Weather Series. Theory and Structure of Storms) Characteristics of warm, cold and occluded fronts; types of clouds associated with each type of front; how an occluded front is produced and how to fly through an occluded front. (*TF 1–726; 23 minutes*)
..... 7

Weathermen of the Sea
U.S. Coast Guard, 1950. Weather patrol duties of Coast Guard cutter in North Atlantic ocean; how weather is determined and forecasts radioed to U.S. for wide dissemination; location of weather stations, their purpose and operation. (*14 minutes*)
..... 21

The Weft System of Aircraft Identification: Special Characteristics
U.S. Department of the Air Force, 1942. Secondary features of wings, engines, fuselage, and tail that are helpful in the identification of aircraft. Animation. (*TF 1–673; 13 minutes*)
..... 7

Welcome Home
U.S. Department of the Army, 1945. Departure and return from overseas of the American soldier; soldiers in combat, their reaction to battle casualties, and welcome upon return home in 1945. (*M 1226; 20 minutes*)
..... 41

West of Waikiki
U.S. Marine Corps, 1947. Marine Corps duty in Hawaii, Guam, and China. (*26 minutes*)
..... 15

Western Grebe
U.S. Fish and Wildlife Service, 1942. Life history, including courtship dance, of western grebe. (*20 minutes, color, silent*)
..... 20

Westward Is Bataan
U.S. Department of the Army, 1945. The campaign which won control of New Guinea and gave the Allies the bases needed for carrying the Pacific War to the Philippines and eventually to Japan. (*OF 27; 45 minutes*)
..... 41

Wetlands
U.S. Department of Agriculture, 1944. Location of 120 million acres of wet land; principal types of water control and land drainage. (*11 minutes*)
..... 4, 32, 41

What Is a Farm Worth?
U.S. Department of Agriculture, 1947. Farm appraisal procedures; State university studies of farm prices; land prices; foreclosure; soil map; soil samples; soil erodability; pasture; weeds; water supply; drainage system; buildings; community facilities. (*14 minutes, color*)
..... 2, 32, 41

What Is Disease?
U.S. Office of Inter-American Affairs, 1945. (Health for the Americas Series) How germs which cause disease enter the body and how to protect oneself against these microbes. An animated cartoon. Portuguese version "O Que E A Doenca," and Spanish version "¿Que Es Enfermedad?" also available. (*11 minutes, color*)
..... 32, 37

What's My Score
U.S. Veterans' Administration, 1947. How to train paraplegics to get around and assist selves; abilities of paraplegics; their proficiency in handling jobs in competition with non-handicapped veterans; how veterans with various handicaps perform jobs. Physical rehabilitation film. (*20 minutes*)
..... 31

When Work Is Done
U.S. Office of War Information, Domestic Branch, 1944. How Sylacauga, Ala., a small town crowded with war plant workers, solved serious housing and recreation shortages through effective planning and cooperative community program. (*9 minutes*)
..... 32, 41

Whistle Signals for Approaching Steam Vessels
U.S. Department of the Navy, 1943. (Rules of the Nautical Road Series) How to use 1, 2, and 3 blast signals, danger signal, and bend signal in various approaching situations. Animated drawings. (*MN 202–j; 17 minutes*)
..... **41**

White Pine Blister Rust
U.S. Department of Agriculture, 1942. Areas affected by disease; life cycle; relationship to currant and gooseberry plants; how disease enters and kills white pines; effective control measures. (*20 minutes, color*)
..... **1, 32, 41**

Wildlife of the Aleutians Islands
U.S. Fish and Wildlife Service, 1947. Views of birds and animals of Aleutian Islands: kittiwakes, auklets, murres, cormorants and sea otters; scenes of sea lions summering on Bogoslof Island. (*15 minutes, color, silent*)
..... **20**

Wilson Dam School
U.S. Tennessee Valley Authority in cooperation with the Alabama State Department of Education, 1942. How a progressive school operates; a typical day at the Wilson Dam School. (*20 minutes*)
..... **30, 32, 40**

Winches and Booms
U.S. Department of the Army, 1943. (Military Stevedoring Series No. 3) Construction and operation of winches; how signalman uses various hand motions in directing winch operators. (*TF 55–1093; 18 minutes*)
..... **41**

Wing Assembly: The Bow Tip
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 6) How to fit the bow tip strip; make the spar tip; joint install the ribs; shape the bow tip; apply and glue the bow tip skins; and varnish the surface. Supplementary filmstrip, same title, also available. (*OE 284; 24 minutes*)
..... **32, 41**

Wing Assembly: The Inboard Panel
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 5) How to install subassemblies in a jig; apply and glue the skins; apply and remove pressure strips; finish the outside surface; and inspect the completed assembly. Supplementary filmstrip, same title, also available. (*OE 300; 19 minutes*)
..... **32, 41**

Wing Assembly: The Nose Section
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 4) How to position the main spar in the jig; install the webbed ribs, junction rib, regular ribs, and leading edge strip; apply and glue the skins; and finish the surface of the nose section. Supplementary filmstrip, same title, also available. (*OE 299; 20 minutes*)
..... **32, 41**

Wing Construction
U.S. Department of the Air Force, 1941. (Airplane Structures Series) Construction and functions of wings; chord, spars and ribs; materials used; forces of thrust and drag and utilization of interior and skin bracing to withstand them. (*TF 1–212; 10 minutes*)
..... **7, 32, 41**

Winged Scourge
U.S. Coordinator of Inter-American Affairs, 1943. Development of the malaria bearing Anopheles mosquito from the larva to full growth. Various means of combating the mosquito demonstrated by the Seven Dwarfs. Portuguese version "Malaria: Guerra Ao Mosquito" and Spanish version "La Pesta Alada", also available. (*10 minutes, color*)
..... **32, 37**

Winged Victory on Foot: 43rd Infantry Division
U.S. Department of the Army, 1949. History of Winged Victory Infantry Division from activation in 1941 till its return after three years of active combat in the Pacific. (*M 7553; 14 minutes*)
..... **12**

Wings Over Brazil
U.S. Coordinator of Inter-American Affairs in cooperation with U.S. Office of Strategic Services, 1944. Progress in aviation, especially during World War II. (*15 minutes*)
..... **32, 41**

Winkie the Watchman
U.S. Public Health Service in cooperation with American Dental Association, 1945. Color animated cartoon in which "bad uns" attack the castle wall (teeth) and are routed by "good uns" who repair the damage while Winkie sleeps. For preschool and elementary children. Short version. (*10 minutes, color*)
..... **26, 32**

Winter Wonderland
U.S. Department of Agriculture, 1938. Facilities provided by Federal and State Governments for winter sports in National and State forests and parks; hiking, skating, tobogganing, skiing, mushing, and snowshoeing. (*11 minutes*)
..... **3, 32, 41**

Wire and Wire Products
U.S. Bureau of Mines in cooperation with United States Steel Corp., 1940. (The Making and Shaping of Steel Series) Manufacturing wire fencing, barbed wire, and wire cables from steel billets; use of wire in fences, tractors, pianos, watches, cable laying and bridges. (*15 minutes, silent*)
..... **17**

Wire Rope Terminal Connections. Parts 1 and 2
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Rigging) How to make and test terminal connections: clips, eye splices, and metallic splices. (*MN 2340-g; 29 minutes*)
..... **41**

Wire Sizes and Voltage Drop
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Factors influencing the ability of conductors to carry electron flow, measurement of wire sizes, wire area in circular mils, voltage drop, and Ohm's Law. Animation. Supplementary filmstrip, same title, also available. (*OF 372; 13 minutes*)
..... **32, 41**

Wiring Old Buildings with Armored Cable
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) How to install outlet boxes; cut and strip armor from cable; attach cable to outlet boxes; run armored cable; repair openings in walls; join conductors at ceiling outlet. Supplementary filmstrip, same title, also available. (*OE 379; 22 minutes*)
..... **32, 41**

Wiring Telltale Panel
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 6) Purpose of telltale units; how to strip cable; form and lace conductors on a jig; strip the ends of conductors and put on lugs; hook up conductors and test the connections. Animation. Supplementary filmstrip, same title, also available. (*OE 115; 17 minutes*)
..... **32, 41**

Wise Land Use Pays
U.S. Department of Agriculture, 1938. Land management in South; principles of soil conservation and erosion control; wise cropping; contour planting; terracing; terrace construction; drainage problems; plating gullies; locating farm buildings; and reforestation. (*19 minutes*)
..... **32, 41**

Wise Parents: Healthy Babies
U.S. Institute of Inter-American Affairs, 1947. How prenatal services safeguard the mother and coming child. Importance of doctor's supervision of the baby and immunization at proper age for certain diseases. Portuguese version "Conselhos para As Maes" and Spanish version "Cuidado de la Madre" also available. (*11 minutes, color*)
..... **32, 37**

With the Marines At Tarawa
U.S. Marine Corps, 1944. Invasion and landing on Tarawa Atoll, Gilbert Islands; preliminary shipboard life; routine; brief-

ing; amtracks; on-the-beach-fighting; final mop-up; flag raising; first plane landing on fighter strip. (*18 minutes, color*)

..... 15

Women In Defense
U.S. Office of Emergency Management, 1942. How women serve in science, industry and voluntary services during wartime. (*11 minutes*)

..... 32, 41

Women Marines
U.S. Marine Corps, 1950. Why the Marine Corps needs Women Marines; activities, work and recreation; advantages and opportunities. Television film trailer. (*1 minute*)

..... 15

Wooden Faces of Totonicapan
U.S. Coordinator of Inter-American Affairs, 1942. (Guatemala Sketch Book Series No. 3) How masks used in religious festivals in Guatemala are made; village ceremonial dances at Chichicastenango; religious customs. (*10 minutes, color*)

..... 32, 41

Wool: Marketing and Manufacture
U.S. Department of Agriculture, 1932. Wool handling from herd to market; sheep shearing; packing and shipping wool to warehouse; grading and marketing; manufacturing processes; uses. (*41 minutes, silent*)

..... 32, 41

Work Horse of the Western Front: 30th Infantry Division
U.S. Department of the Army, 1950. (Pride of the Outfit Series) How Old Hickory Infantry Division broke Hindenburg Line in World War I; piled up victories in Normandy, St. Lo, Belgium, Holland; pierced Siegfried Line; fought Battle of Bulge; spear-headed 9th Army assault across Rhine; present peace-time duty and preparedness training as National Guard Division in N.C. and Tenn. (*M 7585; 18 minutes*)

..... 12

Working With Other Supervisors
U.S. Office of Education, 1944. (Problems in Supervision Series) Larry Daniels fails as a supervisor because he does not recognize the importance of working harmoniously with other people, particularly with his fellow supervisors. (*OE 153; 8 minutes*)

..... 32, 41

The World At War
U.S. Office of War Information, Domestic Branch, 1943. Graphic history of the years 1931–41—from the Japanese invasion of Manchuria to the bombing of Pearl Harbor 10 years later. The pattern of aggression in China, Ethiopia, Spain, Poland, Belgium, Holland, and France. (*44 minutes*)

..... 32, 41

The World of Silk
U.S. Economic Cooperation Administration, 1950. How as a result of E.C.A. support of Europe's silk industries fifteen nations were represented at The International Silk Congress, held in New York in 1950; how silk is processed from cocoon to couturier; Waldorf Astoria fashion show of latest silk styles. (*14 minutes*)

..... 24

Wound Rotor Controllers
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 4) Wound rotor motor principles; operation of a faceplate controller, drum-type nonreversing controller, drum-type reversing controller, and automatic magnetic starter for a wound rotor motor. Animation. Supplementary filmstrip, same title, also available. (*OE 391; 17 minutes*)

..... 32, 41

Wounds
U.S. Department of the Navy, 1943. (Personnel Damage Control Series) How to treat, dress and apply sulfa powder to scalp, head, chest, and intestinal wounds; injuries from bullets and flying fragments. Battle station first aid. Revision, same title, also available. (*MN 836–b; 20 minutes, color*)

..... 41

Wounds
U.S. Department of the Navy, 1947. (Personnel Damage Control Series) How to treat leg wound; control bleeding in various types of wounds; circulatory system illustrated in animation. Revision. (*MN 6466–c; 8 minutes*)
..... **41**

Wounds of the Face and Jaw
U.S. Department of the Navy, 1945. (Early Care of Plastic Surgical Cases Series) Complete operation from wounding of face, jaw, and neck on battle field to convalescence in hospital. How to wire jawbone, sew inside of mouth, rework nose and face, and respiratory system. Technical information. (*MN 2715–b; 20 minutes, color*)
..... **41**

Wounds of the Hand
U.S. Department of the Navy, 1945. (Early Care of Plastic Surgical Cases Series) Parts and structure of hand; desirability of primary closure of wounds in combat areas with elective surgery reserved for hospital bases and plastic surgery, for special hospitals in the United States. (*MN 2715–a; 14 minutes, color*)
..... **41**

Wrenches
U.S. Department of the Army, 1943. (Care and Use of Hand Tools Series No. 1) Various wrenches; their special uses and advantages; dangerous practices. (*TF 9–2026; 19 minutes*)
..... **32, 41**

Write Right
U.S. Veterans' Administration, 1946. Importance of clear complete information in correspondence with VA; visiting nearest VA office instead of writing; not contacting VA for surplus Government property, a home, or a job. A trailer. (*1 minute*)
..... **31**

Wyoming and Its Natural Resources
U.S. Bureau of Mines in cooperation with Sinclair Refining Co., 1949. (State Film Series) Panorama of mineral resources, agriculture, forestry, ranching, scenery, national parks, dams, power plants, industrial centers, educational institutions, and leading cities. (*30 minutes, color*)
..... **17**

X-Ray Inspection
U.S. Office of Education, 1944. (Engineering Series. Materials Testing No. 1) Use of radiographs in industry; generation of X-rays in the X-ray tube; wave nature of X-rays; procedure in making radiographs; and interpretation of radiographs for defects in metals. Supplementary filmstrip, same title, also available. (*OE 173; 21 minutes*)
..... **32, 41**

Years of Decision
U.S. Economic Cooperation Administration, 1950. Historical beginnings of the Marshall Plan in response to post-war needs of European peoples; results of first years of operation; its effects on lives of individual men and women. (*20 minutes*)
..... **24**

You and Your Job
U.S. Public Health Service with the cooperation of U.S. Office of Education, 1946. (Small Milk Plant Operation Series) Emphasizes and illustrates the concept that trained, responsible men are essential in the production of safe pasteurized milk. For milk handlers and sanitarians and general public. (*10 minutes*)
..... **26, 32, 41**

You Can Hear Again
U.S. Veterans' Administration, 1949. How Harry Walker recognized and conquered his defective hearing and returned to normal living with the aid of a Veterans' Administration Aural Rehabilitation program. (*30 minutes*)
..... **31, 41**

You Can Lick TB
U.S. Veterans' Administration, 1949. How typical TB patient in VA hospital learns to rest, readjust to a less strenuous life, and benefit from the VA rehabilitation

program to become fitted for work within his physical capabilities. (*20 minutes*)
..... **31, 41**

Young Uruguay
U.S. Coordinator of Inter-American Affairs, 1943. Young people of Uruguay at home, play, and school; progressive steps being made in education. (*17 minutes*)
..... **32, 41**

Your Air Force in Action
U.S. Department of Air Force, 1950. The U.S. Air Force in Korea providing airlift facilities and air support for United Nations troops; evacuation of civilian personnel; transportation of troops and supplies; evacuation of wounded; strafing and bombing mission. (*SFP 256; 14 minutes*)
..... **11, 41**

Your Army in Disaster Relief
U.S. Department of the Army, 1949. Role the Army played in Texas City disaster, snow-bound areas in the winter of 1948–49, and areas flooded along the Mississippi. (*M 7546; 18 minutes*)
..... **12, 41**

Your Army Today
U.S. Department of the Army, 1947. U.S. Army of 1947 and the future; its varied responsibilities and need for skilled and trained men to cope with problems of military science and tactics. Introduction by General Dwight D. Eisenhower. (*M 1328; 11 minutes*)
..... **41**

Your Driving Habits
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 2) Elements of good driving; how to start the engine; use the clutch and shift gears; use brakes; drive on curves, in mountainous country, and through snow and mud; and park a car. Supplementary filmstrip, same title, also available. (*OE 487; 15 minutes*)
..... **32, 41**

Your Health Center
U.S. Institute of Inter-American Affairs, 1947. Varied services available in a health center and their importance in preventing diseases as well as generally protecting health. Work of health center nurses and sanitary inspectors and its importance. Portuguese version "A Policlinica Da Sua Cidade" and Spanish version "El Centro de Salubridad" also available. (*8 minutes, color*)
..... **32, 37**

Your Part in Position Classification
U.S. Department of the Navy, 1947. Various Navy Civil Service positions; importance of accurate job descriptions. Live photography, animation. (*MN 5366; 17 minutes, color*)
..... **41**

Your Proudest Duty
U.S. Department of the Army, 1947. Duties and responsibilities of military personnel escorting war dead from Quartermaster Depots in United States to families of deceased for reinterment. (*TF 10–1473; 26 minutes*)
..... **41**

Your Social Security
U.S. Bureau of Old Age and Survivors Insurance, 1951. History of social security and an explanation of the 1950 amendments. (*18 minutes*)
..... **25**

Your Soil: Your Future
U.S. Institute of Inter-American Affairs, 1947. Importance of soil conservation and methods any farmer may apply, such as contour farming, crop rotation, reforestation and others. Portuguese version "Conservacao Do Solo" and Spanish version "Conservacion de la Tierra Fertil" also available. (*8 minutes, color*)
..... **32, 37**

Your Son in the Marine Corps
U.S. Marine Corps, 1950. Prepared to explain work and life in the U.S. Marine Corps to parents of Marines. Television film trailer. (*1 minute*)
..... **15**

Yucatan
U.S. Coordinator of Inter-American Affairs with the cooperation of Tourist Department of Mexico and Mexican

Tourist Bureau, 1943. Travelogue to Mexico's eastern province, Yucatan. (*21 minutes, color*)
..... 32, 41

Zeroing and Use of the Score Book
U.S. Department of the Army, 1943. (Rifle Marksmanship with the M–1 Rifle, Preparatory Training Series No. 6) Method of obtaining the correct zero reading and recording data in score book. How to adjust gun in accordance with zero reading to counteract deflections of firing. (*TF 7–1101; 27 minutes*)
..... 41

Zinc: Its Mining, Milling, and Smelting
U.S. Bureau of Mines in cooperation with St. Joseph Lead Co., 1948. U.S. zinc-bearing ores; mining community; mining ore, transporting to mill, smelting ore to produce zinc oxide and metallic zinc; recovering by-products; industrial uses of zinc oxide and metallic zinc. Animated diagrams. (*30 minutes*)
..... 17

The Zipper Fleet
U.S. Department of the Navy, 1947. Historical background and heroic wartime activities of Navy ships and planes prior to their decommissioning; technical servicing for long term shipshape storage and swift recall to action. (*MN 6647; 10 minutes*)
..... 14

U. S. Government Films

Filmstrips

ALL of the filmstrips listed and described in this catalog are 35mm films. Unless otherwise indicated, they are silent, black-and-white, and single-frame filmstrips. Color filmstrips and double-frame filmstrips are so labeled and sound filmstrips are identified by the phrase "synchronized disc" which is, unless otherwise indicated, a 16-inch recording with a playing speed of 33⅓ rpm.

Each filmstrip is described as follows: (a) the title of the filmstrip; (b) the name of the producing agency or agencies and the date of production; (c) the series title if the filmstrip is part of a series; (d) a descriptive summary of the content of the filmstrip; (e) references to related films; and (f) the order number of the filmstrip if it has such a number, its length in frames, and special notations for color filmstrips, double-frame filmstrips, and sound filmstrips, i.e., the existence of an accompanying recording.

Following these descriptive data are several numbers in boldface type. These code numbers refer to specific instructions for obtaining Government filmstrips which are explained on pages 306-329 of this catalog. To learn how to obtain the first filmstrip listed below, for example, turn to page 307 where, under code number 5, directions are given for obtaining this filmstrip.

Acres in This Place
U.S. Bureau of the Census, 1949. Determining what acres are to be reported by the person in charge. (*30 frames, synchronized microgroove disc, 9 minutes; also script*)
..... **5**

Across-the-Line Starters
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 2) Reviews material presented in motion picture, same title. (*OE 389; 37 frames*)
..... **41**

Activated Sludge and Vacuum Filtration Plant With Vacuum Filtration and Incineration
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Plants Series No. 4) Reviews material presented in motion picture, same title. (*CDC–5–160; 75 frames, synchronized disc, 8 minutes*)
..... **27**

Adding or Removing Refrigerant
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 4) Reviews material presented in motion picture, same title. (*OE 441; 52 frames*)
..... **41**

Adjusting and Checking the Expansion Valve
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 7) Reviews material presented in motion picture, same title. (*OE 444; 49 frames*)
..... **41**

Aircraft Lubricants and Lubricating Equipment
U.S. Department of the Navy, 1944. Title self-explanatory. (*SN 1969; 26 frames*)
..... 41

Aircraft Storage Batteries
U.S. Department of the Air Force, 1942. Types of batteries used on airplanes; operating principles; methods of charging and testing. (*FS 1–17; 54 frames*)
..... 41

Aircraft Tachometers
U.S. Department of the Air Force, 1943. Principles of operation, maintenance and points of installation of four basic types of tachometers: chronometric, centrifugal, electric voltmeter and electric magnetic-drag. (*FS 1–553; 65 frames*)
..... 7

Aircraft Tires. Part 1: Maintenance and Repair
U.S. Department of the Navy, 1942. Types of tires, tubes and rims; tire tools; precautions; minor tube repairs; periodic inspection; proper inflation. (*SN 491–a; 35 frames*)
..... 41

Aircraft Tires. Part 2: Maintenance and Repair
U.S. Department of the Navy, 1942. Continues discussion of Part 1. (*SN 491–b; 57 frames*)
..... 7

Airman Service
U.S. Civil Aeronautics Administration, 1946. Activities of Airman Service field and departmental representatives. Prepared for use in Office of Aviation Safety indoctrination and refresher course. (*38 frames, color, synchronized disc, 14 minutes*)
..... 7

The Airplane Engine
U.S. Department of the Navy, 1943. Principles of operation of four-stroke cycle internal-combustion engine. (*SN 2779; 33 frames*)
..... 7

Airplane Flight Control Surfaces and the Wing Flaps
U.S. Department of the Air Force, 1942. Primary and secondary control surfaces; function of control surfaces. (*FS 1–29; 65 frames*)
..... 7, 41

Airplane Ignition
U.S. Department of the Navy, 1942. Basic operating principles and maintenance of the ignition system. (*SN 800; 62 frames*)
..... 41

The Airplane Mechanic
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 278; 44 frames*)
..... 41

Airway Aids
U.S. Department of the Navy, 1943. Development of airways, markers, and beacons; some course lights, runway markers, and obstruction lights in use today. (*SN 816; 73 frames*)
..... 7

Aligning and Installing Auxiliary Machinery
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 2) Reviews material presented in motion picture, same title. (*OE 96; 42 frames*)
..... 41

Alternating Current
U.S. Department of the Air Force, 1942. Elementary introduction to principles of alternating current; Lenz' Law, simple wave alternator, frequency, effective value, voltage-current-time relationship, and power. (*FS 1–86; 90 frames*)
..... 41

Altitude
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Types of altitude and air pressure; defines atmospheric pressure; pressure and density altitude, station and aircraft altimeter; pressure readings; altimeter ad-

Aerodynamics
U.S. Department of the Air Force, 1942. Motion of air and the force it exerts upon moving solids; way in which turbulence and skin friction oppose useful dynamic reaction. (*FS 1–8; 59 frames*)
..... 41

Aerology: Navy Quiz No. 2
U.S. Department of the Navy, 1942. Explanation of basic cloudshapes; questions with multiple choice answers on types and meanings of cloudshapes at various altitudes, meanings of weather symbols, etc. (*SN 2542–b; 91 frames*)
..... 7

Air Masses
U.S. Department of the Navy, 1942. Formation of lows and highs; rain; formation of ice; the occurrence of radiation; advection; and upslope fogs. (*SN 815; 80 frames*)
..... 7

Air Ocean
U.S. Department of the Navy, 1942. Elementary discussion of nature of earth's "air ocean" and basic atmospheric conditions considered in describing and forecasting weather. (*SN 814; 70 frames*)
..... 7

Air Pilotage
U.S. Department of the Navy, 1942. How to read aeronautical maps and charts and plot a course between two points. (*SN 810; 70 frames*)
..... 7

Air Swinging and Curve Data for the SCR-269-ACG
U.S. Department of the Air Force [1943]. How to determine radio compass deviations for particular aircraft and installation, and plot these values as a curve to give compass deviation corrections for any heading. (*FS 1–657; 34 frames*)
..... 7

Air Traffic Control: Promoting Safety and Efficiency through Automatic Communication Methods
U.S. Civil Aeronautics Administration, 1945. Air traffic control: procedures and facilities; how present equipment limits density of air traffic for safe control; possible solution of problems. (*47 frames, synchronized disc, 14 minutes*)
..... 7

Air Traffic Rules
U.S. Civil Aeronautics Administration, 1946. Part 60 of Civil Air Regulations on Air Traffic Rules illustrated in drawings. October 8, 1947 changes not included. (*28 frames, color, synchronized disc, 13 minutes*)
..... 7, 41

Aircraft Engine Operation
U.S. Department of the Air Force, 1942. Procedures for starting up, warming up, ground testing, and stopping aircraft engines. Operations in various flight conditions. (*FS 1–72; 67 frames*)
..... 41

Aircraft Engine Pumps
U.S. Department of the Air Force, 1942. Operations, construction, and maintenance of the coolant oil, fuel pumps, and various types of vacuum pumps. (*FS 1–60; 38 frames*)
..... 41

Aircraft Engine Repairs: Classification of Engine Types
U.S. Department of the Air Force, 1942. Methods of classifying aircraft engines: in-line, V-type, double V-type, X-type opposed, radial. (*FS 1–9; 38 frames*)
..... 41

Aircraft Engine Troubles: General
U.S. Department of the Air Force, 1942. Common engine troubles in compression and ignition systems; causes of improper compression; ignition troubles. (*FS 1–66; 56 frames*)
..... 41

Aircraft Engine Troubles: Starting
U.S. Department of the Air Force, 1942. Aircraft engine starting difficulties: cold weather, carburetion, compression, ignition, and starter. (*FS 1–82; 62 frames*)
..... 7, 41

Aircraft Lubricants and Lubricating Equipment
U.S. Department of the Navy, 1944. Title self-explanatory. (*SN 1969; 26 frames*)
..... 41

Aircraft Storage Batteries
U.S. Department of the Air Force, 1942. Types of batteries used on airplanes; operating principles; methods of charging and testing. (*FS 1–17; 54 frames*)
..... 41

Aircraft Tachometers
U.S. Department of the Air Force, 1943. Principles of operation, maintenance and points of installation of four basic types of tachometers: chronometric, centrifugal, electric voltmeter and electric magnetic-drag. (*FS 1–553; 65 frames*)
..... 7

Aircraft Tires. Part 1: Maintenance and Repair
U.S. Department of the Navy, 1942. Types of tires, tubes and rims; tire tools; precautions; minor tube repairs; periodic inspection; proper inflation. (*SN 491–a; 35 frames*)
..... 41

Aircraft Tires. Part 2: Maintenance and Repair
U.S. Department of the Navy, 1942. Continues discussion of Part 1. (*SN 491–b; 57 frames*)
..... 7

Airman Service
U.S. Civil Aeronautics Administration, 1946. Activities of Airman Service field and departmental representatives. Prepared for use in Office of Aviation Safety indoctrination and refresher course. (*38 frames, color, synchronized disc, 14 minutes*)
..... 7

The Airplane Engine
U.S. Department of the Navy, 1943. Principles of operation of four-stroke cycle internal-combustion engine. (*SN 2779; 33 frames*)
..... 7

Airplane Flight Control Surfaces and the Wing Flaps
U.S. Department of the Air Force, 1942. Primary and secondary control surfaces; function of control surfaces. (*FS 1–29; 65 frames*)
..... 7, 41

Airplane Ignition
U.S. Department of the Navy, 1942. Basic operating principles and maintenance of the ignition system. (*SN 800; 62 frames*)
..... 41

The Airplane Mechanic
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 278; 44 frames*)
..... 41

Airway Aids
U.S. Department of the Navy, 1943. Development of airways, markers, and beacons; some course lights, runway markers, and obstruction lights in use today. (*SN 816; 73 frames*)
..... 7

Aligning and Installing Auxiliary Machinery
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 2) Reviews material presented in motion picture, same title. (*OE 96; 42 frames*)
..... 41

Alternating Current
U.S. Department of the Air Force, 1942. Elementary introduction to principles of alternating current; Lenz' Law, simple wave alternator, frequency, effective value, voltage-current-time relationship, and power. (*FS 1–86; 90 frames*)
..... 41

Altitude
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Types of altitude and air pressure; defines atmospheric pressure; pressure and density altitude, station and aircraft altimeter; pressure readings; altimeter ad-

justments at various altitudes. (*SN 1059–d; 51 frames, synchronized disc, 27 minutes*)
..... 41

America (My Country 'Tis of Thee)
U.S. Department of Agriculture, 1947. Illustrations of the song first sung by Boston school children on Independence Day, 1832. For 4–H Club work. (*27 frames*)
..... 39

American Farm Home Life
U.S. Department of Agriculture, 1946. General conception of modern home life on a typical American farm. (*62 frames*)
..... 39

The American Nautical Almanac for the Year 1943
U.S. Department of the Navy, 1943. (Navigation Series) How to use the almanac and apply the information obtained to determine the Greenwich hour angle of the planets Jupiter and Vega and the angle of the moon. (*SN 83–s; 64 frames, synchronized disc, 15 minutes*)
..... 41

Amperes, Volts and Ohms
U.S. Department of the Navy, 1944. (Radio Technician Training Series. Elementary Electricity) Reviews material presented in motion picture, same title. (*SN 1540–au; 23 frames*)
..... 41

Analysis of Maneuvers. Part 1
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Contact and instrument flying; how to maintain constant heading, deal with changing air density, and account for altitude. (*SN 1059–e; 37 frames, synchronized disc, 15 minutes*)
..... 41

Analysis of Maneuvers. Part 2
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Title self-explanatory. (*SN 1059–f; [50?] frames, synchronized disc, [20?] minutes*)
..... 41

Analysis of Maneuvers Using Instruments
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) Title self-explanatory. (*SN 1059–w; 46 frames, synchronized disc, [10?] minutes*)
..... 41

The Analytical Balance
U.S. Public Health Service, 1951. Title self-explanatory. (*CDC–F–12; 67 frames, synchronized disc, [10?] minutes*)
..... 27

The Anatomy of the Honeybee
U.S. Department of Agriculture, 1939. Structures of parts of worker, queen, and drone in detail. Revision. (*33 frames: single; also double*)
..... 39

Anchoring and Mooring Seaplanes
U.S. Department of the Navy, 1942. How to drop, secure, and weigh anchor; how to moor seaplanes at permanent bases. (*SN 929; 64 frames*)
..... 41

Approach Control
U.S. Civil Aeronautics Administration, 1945. Approach Control: purpose and operation; how to land a plane: procedures and phraseology. (*54 frames, color, synchronized disc, 12 minutes*)
..... 7, 41

Approach Procedure
U.S. Department of the Navy, 1943. (Instrument Flight Control Series. Airport and Airway Traffic Control Procedure No. 3) Title self-explanatory. (*SN 1059–r; [50?] frames, synchronized disc, [20?] minutes*)
..... 41

Articulation of Teeth
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–d; 40 frames, color, synchronized disc, 12 minutes*)
..... 41

Artificial Respiration
U.S. Department of the Navy, 1942. (First Aid Series) How to apply artificial

respiration by the prone pressure method. Straight photography and cartoons. (*SN 225–a; 33 frames*)
..... 7

Assembling in a Jig: Drilling and Riveting
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 2) Reviews material presented in motion picture, same title. (*OE 137; 50 frames*)
..... 41

Assembling in a Jig: Fitting and Lining Up
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 1) Reviews material presented in motion picture, same title. (*OE 136; 47 frames*)
..... 41

Attaching and Aligning Wings
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 258; 45 frames*)
..... 41

Audio Frequency Amplification
U.S. Department of the Navy, 1942. Theory and practice of amplification of the audio wave. (*SN 652; 25 frames*)
..... 41

The Azimuth Circle: Pelorus
U.S. Coast Guard, 1944. (Piloting Series) Use and characteristics of dividers, parallel ruler, and protractor. (*33 frames*)
..... 41

A Backyard Vegetable Garden
U.S. Department of Agriculture, 1945. How to select site, plan garden; spade, plant, thin, stake tomatoes and beans; cultivate; irrigate; make compost; advantages of succession cropping. (*60 frames: single; also double*)
..... 39

Bar Work: Magnesium. Part 1: Setting Up Bar Mechanism and Roller Turner
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 5) Reviews material presented in motion picture, same title. (*OE 216; 33 frames*)
..... 41

Bar Work: Magnesium. Part 2: Setting Up Multiple Roller Turner and Turning a Taper
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 6) Reviews material presented in motion picture, same title. (*OE 217; 29 frames*)
..... 41

Bar Work: Magnesium. Part 3: Necking and Threading by Use of Attachment and by Die Head
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 7) Reviews material presented in motion picture, same title. (*OE 218; 25 frames*)
..... 41

Barberries in Grain Areas: Their Spread, Damage, and Eradication
U.S. Department of Agriculture, 1939. How trained crews in the North Central States interviewed owners or renters and inspected and destroyed barberries, one of the black-stem rust hosts. (*41 frames*)
..... 39

Barometer, Hygrometer, Clinometer
U.S. Coast Guard, 1944. (Piloting Series) Parts and uses of barometer, hygrometer, clinometer, and anemometer. (*49 frames*)
..... 41

Base Plates and Biterims
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–b; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

Basic Biology of Bacteria
U.S. Public Health Service, 1950. (An Introduction to Bacteriology Series No. 1) Title self-explanatory. (*CDC–5–174; 56 frames, color, synchronized disc, 7 minutes*)
..... 27

Basic Principle of Reciprocating Engine
U.S. Coast Guard, 1943. (Ship's Engines Series) In diagrams, steam cycle of reciprocating engine, construction, principal parts, method to get steam in and out of cylinder, how parts of assembly operate during double stroke of piston. (*81 frames*)
..... 41

Bathing the Patient: Home Care
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 403; 52 frames*)
..... 41

The Battery, Ignition, and Electrical System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 2) Reviews material presented in motion picture, same title. (*OE 462; 55 frames*)
..... 41

Beaching and Launching Small Seaplanes and Amphibians
U.S. Department of the Navy, 1943. Procedure and gear for launching and beaching single and double float seaplanes and amphibians. Revision. (*SN 2785; 56 frames*)
..... 41

Beaching and Launching VP Boats
U.S. Department of the Navy, 1942. How to beach and launch a large flying boat. (*SN 823; 64 frames*)
..... 41

Bending Copper Tubing to a Wire Template
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 1) Reviews material presented in motion picture, same title. (*OE 102; 37 frames*)
..... 41

Bending to a Cleat
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title; also shows how to tie a weather hitch. (*15 frames*)
..... 41

Bevel Protractor
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 7) Reviews material presented in motion picture, same title. (*OE 50; 34 frames*)
..... 41

Beveling, Mitering, Rabbeting, and Dadoing
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 2) Reviews material presented in motion picture, same title. (*OE 307; 35 frames*)
..... 41

Beveling, Stop Chamfering, and Tapering Square Stock
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 2) Reviews material presented in motion picture, same title. (*OE 303; 62 frames*)
..... 41

The Big Count
U.S. Bureau of the Census, 1950. Orientation film on the Bureau of the Census; historical background; types of information collected; methods employed; purposes for which used; how processed. Summary by Acting Director, Dr. Hauser. (*38 frames, double, synchronized microgroove disc, 10 minutes; also script*)
..... 5

Birds: Their Value to Agriculture
U.S. Department of Agriculture, 1947. Life and habits of birds; their economic value due to insect diet; protective measures; and emergency feeding. (*61 frames: single; also double*)
..... 39

Blanking Sheet Metal on the Squaring Shear
U.S. Office of Education, 1943. (Aircraft Work Series. Blanking Sheet Metal Work No. 1) Reviews material presented in

motion picture, same title. (*OE 130; 59 frames*)
..... 41

Blanking Sheet Metal With Hand Snips
U.S. Office of Education, 1943. (Aircraft Work Series. Blanking Sheet Metal No. 2) Reviews material presented in motion picture, same title. (*OE 131; 45 frames*)
..... 41

Blanking with Rotary and High Speed Shears
U.S. Office of Education, 1945. (Aircraft Work Series. Blanking Sheet Metal No. 4) Reviews material presented in motion picture, same title. (*OE 292; 36 frames*)
..... 41

Blanking with the Swing Arm Router
U.S. Office of Education, 1944. (Aircraft Work Series. Blanking Sheet Metal No. 3) Reviews material presented in motion picture, same title. (*OE 132; 36 frames*)
..... 41

Bleeding Hydraulic Brakes
U.S. Department of the Navy, 1943. Three general types of hydraulic airplane brakes and how to bleed each when air is in system. (*SN 2794; 63 frames*)
..... 7

Blind Riveting
U.S. Office of Education, 1945. (Aircraft Work Series. Assembling and Riveting No. 8) Reviews material presented in motion picture, same title. (*OE 294; 25 frames*)
..... 41

The Body. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) Parts of the body: bones, muscles, tendons, skin, blood, head, trunk, and limbs. Straight photography, drawings. (*SN 216–a; 43 frames, synchronized disc, 10 minutes*)
..... 41

The Body. Part 2
U.S. Department of the Navy, 1942. (First Aid Series) Circulatory, respiratory, digestive, and nervous systems; their parts and functions. Straight photography and drawings. (*SN 216–b; 46 frames, synchronized disc, 11 minutes*)
..... 41

The Boiler
U.S. Coast Guard, 1943. (Ship's Engines Series) How pressure, temperature, etc., affect formation of steam; definition of "heat of the liquid", "latent heat of steam", "superheated steam"; parts and operation of water and fire-tube boilers. (*93 frames*)
..... 41

Boring Holes With Offset Boring Head
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 7) Reviews material presented in motion picture, same title. (*OE 209; 45 frames*)
..... 41

Boring to Close Tolerances
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 11) Reviews material presented in motion picture, same title. (*OE 59; 24 frames*)
..... 41

Borneo and Celebes
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area. Netherlands East Indies) Geographical features of Borneo and Celebes; monsoon periods; available game; hardships; danger of Jap patrols; possible advantages of befriending natives for safe travel to a friendly base. (*SN 1538–g; 91 frames, color, synchronized disc, 20 minutes*)
..... 41

The Bowline
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*33 frames*)
..... 41

Brake and Landing Gear Mechanism Inspection. Part 1
U.S. Department of the Navy, 1942. How to inspect landing gear and brake assembly of single engined plane with

fixed landing gear; inspect and service landing gear and brake assembly of twin engined plane with retractable landing gear. (*SN 110–a; 34 frames*)
..... 41

Brake and Landing Gear Mechanism Inspection. Part 2
U.S. Department of the Navy, 1942. Operation and inspection of retractable landing gear of Douglas transport. (*SN 110–b; 67 frames*)
..... 41

Brazing Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 1) Reviews material presented in motion picture, same title. (*OE 241; 41 frames*)
..... 41

Brazing Flanges with Silver Solder
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 3) Reviews material presented in motion picture, same title. (*OE 104; 27 frames*)
..... 41

Brazing Flanges with Spelter
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 2) Reviews material presented in motion picture, same title. (*OE 103; 37 frames*)
..... 41

Breeds of Sheep
U.S. Department of Agriculture, 1939. How to classify various breeds of sheep on basis of fine, medium, and coarse wool, and Karakul fur. Revision. (*56 frames*)
..... 39

Breeds of Swine
U.S. Department of Agriculture, 1940. Several types and breeds of swine commonly used in producing market hogs in the United States; lard and bacon types compared. (*33 frames*)
..... 39

Bringing an Old Wisconsin Farmhouse up to Date
U.S. Department of Agriculture, 1935. How dairy farm family made over old timber house from foundation to roof with lumber from own woods. (*45 frames*)
..... 39

Broaching an Internal Keyway
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Broaching Machine No. 1) Reviews material presented in motion picture, same title. (*OE 236; 35 frames*)
..... 41

Brucellosis of Cattle (Bang's Disease)
U.S. Department of Agriculture, 1942. History, symptoms, causes, and control methods of brucellosis. (*48 frames: single; also double*)
..... 39

The BT-13A, Basic Trainer
U.S. Department of the Air Force, [1943?]. (Airplane Cockpit Instruments and Controls Series No. 2) Name, function and location of cockpit instruments in BT–13A basic trainer. (*FS 1–321; 40 frames*)
..... 7

Building a Box Beam Spar
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 2) Reviews material presented in motion picture, same title. (*OE 297; 47 frames*)
..... 41

Building a Wooden Rib
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 1) Reviews material presented in motion picture, same title. (*OE 296; 38 frames*)
..... 41

Building and Utility Layout
U.S. Department of the Army, 1945. (Surveying Series No. 3) Title self-explanatory. (*FS 5–78; 60 frames*)
..... 41

The Bulkhead: Laying Off and Fitting a Centerline Stiffener
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 8) Reviews material presented in motion picture, same title. (*OE 31; 46 frames*)
..... 41

The Bulkhead: Laying Off the Boundary, Stiffeners, Waterlines, and Buttock Lines
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 7) Reviews material presented in motion picture, same title. (*OE 30; 43 frames*)
..... 41

The Bulkhead: Setting a Transverse Watertight Bulkhead into the Hull
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 9) Reviews material presented in motion picture, same title. (*OE 32; 57 frames*)
..... 41

Burns
U.S. Department of the Navy, 1942. (First Aid Series) How to recognize and treat scalds, 1st, 2nd, and 3rd degree burns. Straight photography. (*SN 222; 38 frames, synchronized disc, 9 minutes*)
..... 41

Bus Care and Maintenance
U.S. Office of Education, 1945. (Automotive Series. School Bus Operation No. 1) Reviews material presented in motion picture, same title. (*OE 494; 51 frames*)
..... 41

Buying Good Food
U.S. Public Health Service, in cooperation with American Diabetes Association and American Dietetic Association, 1950. (Taking Care of Diabetes Series No. 6) Emphasizes availability of diabetic diet foods at local grocery stores stressing importance of exchange lists and food buying in terms of relative food values. Primarily for diabetics. (*CDC–5–146; 50 frames, color, synchronized disc, 8 minutes*)
..... 27

CAA Communications System
U.S. Civil Aeronautics Administration, 1946. CAA communications system facilities: operations and functions. (*50 frames, color, synchronized disc, 17 minutes*)
..... 7, 41

Cable Splicing. Part 1
U.S. Department of the Navy, 1942. Materials, tools and methods used in replacing spliced control cable connections; five-tuck Navy splice. (*SN 67–a; 49 frames*)
..... 41

Cable Splicing. Part 2
U.S. Department of the Navy, 1942. Steps in threading and rolling a Roebling cable splice. (*SN 67–b; 45 frames*)
..... 41

Cable Surface Wiring
U.S. Office of Education, 1944. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 377; 48 frames*)
..... 41

Canning Beef
U.S. Office of Education, 1945. (Farm Work Series. Food Preservation No. 2) Reviews material presented in motion picture, same title. (*OE 455; 49 frames*)
..... 41

Canning Chicken
U.S. Department of Agriculture, 1945. How to cut up and can chicken based on research of the Bureau of Human Nutrition and Home Economics. (*45 frames: single; also double*)
..... 39

Canning Fruits and Tomatoes
U.S. Department of Agriculture, 1945. Introductory pictures of equipment; how to can fruit and tomatoes according to methods recommended by the Bureau of Human Nutrition and Home Economics. (*49 frames: double*)
..... 39

Canning Meat
U.S. Department of Agriculture, 1945. How to can meat according to methods based on research of the Bureau of Human Nutrition and Home Economics. (*40 frames: single; also double*)
..... 39

Canning Vegetables the Steam-Pressure Way
U.S. Department of Agriculture, 1945. How to can snap beans and all vegetables except tomatoes and pickled beets according to methods recommended by the Bureau of Human Nutrition and Home Economics. (*32 frames: double*)
..... 39

Capacitance
U.S. Department of the Navy, 1943. (Radio Technician Training Series) Reviews material presented in motion picture, "Capacitance. Part 1 and 2." (*SN 1540–aa; 22 frames*)
..... 41

Capacitive Reactance
U.S. Department of the Navy, 1942. Basic theory of capacitive reactance; its application to radio instruments. (*SN 648; 29 frames*)
..... 41

The Carburetor. Part 1
U.S. Coast Guard, 1942. (Internal Combustion Engines Series) Need for vaporizing gasoline mixture before combustion takes place; how mixture is vaporized by spray, vacuum, and heat. (*53 frames*)
..... 41

The Carburetor. Part 2
U.S. Coast Guard, 1944. (Internal Combustion Engines Series) Speeds, weights, mixture, action of throttle valve, updraft carburetors, breaking up gasoline for vaporizing, mixing it with air, needle valve action, nozzles, vanes, idling, low, high speeds. (*64 frames*)
..... 41

The Carburetor. Part 3
U.S. Coast Guard, 1942. (Internal Combustion Engines Series) Devices for controlling air-fuel mixture in idling, accelerating and starting; purpose of flame arrestor. (*40 frames*)
..... 41

The Care and Cleaning of Photographic Lenses
U.S. Department of the Air Force, 1942. Methods and importance of proper care and cleaning; effects of improperly cleaned lenses; precautions in use and handling of lenses; review test. (*FS 1–48; 58 frames*)
..... 41

Care and Operation of the Coffee Urn
U.S. Department of the Army, 1948. Operation of coffee urn singly and in battery; how to brew coffee with urn bag and metal basket; importance of regular and thorough cleaning of urn. (*SFS 10–183; 57 frames, synchronized disc, 20 minutes*)
..... 41

Care and Repair of Farm Machinery
U.S. Department of Agriculture, 1942. Self-explanatory illustrated charts prepared by Missouri Extension Service. (*49 frames*)
..... 39

Care and Repair of Flight Controls
U.S. Department of the Navy, 1943. How to service and check cables, pulleys, tubes, hinges, and other fittings; importance of flight control checking and repair. (*SN 2795; 68 frames*)
..... 7

Care of a Tractor
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 6) Reviews material presented in motion picture, same title. (*OE 454; 40 frames*)
..... 41

Care of the Cardiac Patient
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 419; 77 frames*)
..... 41

Care of the Horse's Feet
U.S. Department of Agriculture, 1930. How to enhance animal's usefulness with proper care; ill effects caused by improper care. Revision. (*41 frames*)
..... 39

Care of the Newborn Baby: The Nurse's Role in Instructing the Parents
U.S. Office of Education, 1944. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 412; 93 frames*)
..... 41

Care of the Patient with Diabetes Mellitus (Complicated)
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 418; 48 frames*)
..... 41

Care of the Patient with Diabetes Mellitus (Uncomplicated)
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 417; 49 frames*)
..... 41

Care of Your Feet
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 10) Value and methods of proper foot care: preventing poor circulation, accidents, injuries and infections; selecting proper shoes and socks; and exercising for adequate blood circulation. Primarily for diabetics. (*CDC–150; 9 frames, color, synchronized disc, 9 minutes*)
..... 27

Caroline, Marianas, Bonin Islands
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area) Military value, climate, atolls, and religion, clothing, and disposition of natives of Kusaie, Ponape, Truk, Yap, Palau, Saipan, Guam, Rota, and Hahajima. (*SN 1538–f; 87 frames, color, synchronized disc, 15 minutes*)
..... 41

Cattle Grubs, or Heel Flies
U.S. Department of Agriculture, 1942. Season and life cycles, attack on cattle and their defense, close-ups, distribution and control measures for farm and range herds. (*33 frames: single; also double*)
..... 39

The Celestial Sphere
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series. Celestial Sphere and Time No. 2) Concept of celestial sphere; definition of terms in celestial navigation. (*FS 1–203; 53 frames*)
..... 7

Centering, Edge Grinding, and Beveling: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) Reviews material presented in motion picture, same title. (*OE 185; 66 frames*)
..... 41

Centering Small Stock
U.S. Office of Education, 1944. (Machine Shop Work Series. Bench Work No. 7) Reviews material presented in motion picture, same title. (*OE 39; 34 frames*)
..... 41

Charging and Operating a Cupola
U.S. Office of Education, 1945. (Foundry Work Series. Melting Practice) Reviews material presented in motion picture, same title. (*OE 437; 44 frames*)
..... 41

Chastity
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. (*FS 16–6; 10 frames, color*)
..... 41

Checking and Replacing a Float Valve
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 8) Reviews material presented in motion picture, same title. (*OE 445; 49 frames*)
..... 41

Checking the Electrical System
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 9) Reviews material presented in motion picture, same title. (*OE 446; 47 frames*)
..... 41

Checking the System. Part 1: General Procedure
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 1) Reviews material presented in motion picture, same title. (*OE 438; 52 frames*)
..... 41

Checking the System. Part 2: Trouble Shooting
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 2) Reviews material presented in motion picture, same title. (*OE 439; 46 frames*)
..... 41

Checking Valves
U.S. Department of the Navy, 1942. Meaning of valve clearance; effects of too little and too much clearance. (*SN 932; 55 frames*)
..... 41

Chemical Precipitation Treatment Plants With Two Stage Digestion
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Plants Series No. 2) Detailed treatment of chemical precipitation and stage digestion in grit chamber and clarifier. (*CDC–5–158; 63 frames, synchronized disc, 7 minutes*)
..... 27

Chestnut Blight
U.S. Department of Agriculture, 1941. History of Chestnut Blight to 1940, symptoms, fungus, deterioration of blight-killer trees, and work of Bureau of Plant Industry to establish blight-resistant chestnuts. Revision. (*49 frames*)
..... 39

Chills and Fever, Why?
U.S. Public Health Service, 1947. (Malaria Control Series) Relapsing vivax malaria: cause; means of infection; life cycle of parasite; symptoms; course of disease; and transmission of parasite from infected to healthy by mosquitoes. Charts, drawings, and titles. (*CDC–5–078; 53 frames, color, synchronized disc, 13 minutes*)
..... 27

Chuck Work. Part 1: Setting Up Hexagon Turret Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 2) Reviews material presented in motion picture, same title. (*OE 213; 29 frames*)
..... 41

Chuck Work. Part 2: Setting Up Tools for Combined Cuts
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 3) Reviews material presented in motion picture, same title. (*OE 214; 27 frames*)
..... 41

Cinch Bugs and How They are Controlled
U.S. Department of Agriculture, 1939. Life stages and habits of insect, damage caused, and control measures. (*36 frames*)
..... 39

Circulation Letters
U.S. Department of Agriculture, 1946. Introduction to discussion or workshop on circular letters to stress that they are more readable, interesting and convincing if just plain talk. (*53 frames: double*)
..... 39

Clap a Stopper on a Line
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*24 frames*)
..... 41

Clean Speech
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. (*FS 16–5; 10 frames, color*)
..... 41

Cleaning the Airplane
U.S. Department of the Navy, 1943. How to clean and inspect after cleaning; parts to be cleaned most often; materials and compounds to be used on various metals. (*SN 2787; 41 frames*)
..... 7

Closing In
U.S. Public Health Service, 1948. (Malaria Control Series) Popular treatment of community mosquito control program to eliminate malaria. Cartoons and drawings. (*CDC–5–085; 66 frames, color, synchronized disc, 12 minutes*)
..... 27

Clouds of Vertical Development
U.S. Department of the Air Force [1943]. (Classification and Recognition of Clouds Series No. 4) Types, identifying characteristics, and symbols of the clouds of vertical development; 21 samples of typical clouds for the viewer to identify. (*FS 1–914; 34 frames, color*)
..... 7

The Clove Hitch
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*20 frames*)
..... 41

The Clutch and Hand Brake
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 6) Reviews material presented in motion picture, same title. (*OE 482; 36 frames*)
..... 41

Cockpit Instrument Checks
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) How to test air speed indicator, altimeter, vertical speed indicator; coast and excessive drift tests. (*SN 1059–u; 63 frames, synchronized disc, 21 minutes*)
..... 41

The Coconut as Food and Drink
U.S. Department of the Navy, 1944. (Castaway Series) How to prepare coconuts as food and drink; utilize each part; tap palm for sugar. (*SN 2306–b; 75 frames, synchronized disc, 8 minutes*)
..... 41

Cold Weather Starting
U.S. Department of the Navy, 1942. How cold weather affects aircraft engine oil, grease, fuel line and spark plugs. (*SN 144; 49 frames*)
..... 41

Collection of Adult Flies
U.S. Public Health Service, 1949. (Community Fly Control Series) Reviews material presented in motion picture, same title. (*CDC–5–122; 37 frames, color*)
..... 27

Colonial Home Industries
U.S. Department of Agriculture, 1939. Development of home textile industry and early home equipment; present-day handicrafts; period patterns. (*60 frames*)
..... 39

Common Emergencies. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) How to treat appendicitis, choking, diarrhea, earache, toothache, common cold, sunburn, poison ivy, poison oak, sumac, insect bites, and fainting. Straight photography, drawings. (*SN 218; 59 frames, synchronized disc, 12 minutes*)
..... 41

Community Canning
U.S. Office of Education, 1943. (Farm Work Series. Food Preservation No. 1) Reviews material presented in motion picture, same title. (*OE 198; 20 frames*)
..... 41

Community Forests, A Local Asset
U.S. Department of Agriculture, 1941. Value of community forests in several States in yield profit, employment, and recreation. (*79 frames: single; also double*)
..... 39

Compass Compensation: Tank Lighter
U.S. Department of the Navy, 1942. Parts of Pelorus; how to locate it on ship; check for east and west deviation.

(SN 1366; 63 frames, synchronized disc, 30 minutes)
..... 41

Compensating the Compass
U.S. Coast Guard, 1944. (Piloting Series) Functions, purpose, and compensation of compass as instrument of navigation. *(32 frames)*
..... 41

The Complete Person
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. *(FS 16–4; 10 frames, color)*
..... 41

Compression Molding. Part 1: Preparing the Charge and Loading the Mold
U.S. Office of Education, 1945. (Plastics Series No. 3) Reviews material presented in motion picture, same title. *(OE 468; 38 frames)*
..... 41

Compression Molding. Part 2: Molding a Simple Part
U.S. Office of Education, 1945. (Plastics Series No. 4) Reviews material presented in motion picture, same title. *(OE 469; 42 frames)*
..... 41

Condition of a Dwelling Unit
U.S. Bureau of the Census, 1949. Census criteria for evaluating the condition of a dwelling unit; examples. *(48 frames, synchronized microgroove disc, 14 minutes, or script)*
..... 5

Conditioning and Cleaning Seed Cotton
U.S. Department of Agriculture, 1939. How proper picking and drying preserves natural value; drawings and photographs of drying and cleaning equipment in use. *(62 frames)*
..... 39

Connecting and Adjusting Controls
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title, *(OE 260; 43 frames)*
..... 41

Connecting Rods, Crankshafts, Bearings, and Crankcases
U.S. Department of the Air Force, 1942. Disassembling and assembling connecting rods, crankshafts, bearings, and crankcases. *(FS 1–35; 43 frames)*
..... 41

Constructing a Farm Pond
U.S. Public Health Service, 1949. With aid of county agent and county sanitation officer, Ben Wood builds approved mosquito free farm fish pound. Planning and construction procedures. *(CDC–5–136; 78 frames, synchronized disc, 10 minutes)*
..... 27

Constructing a Sanitary Pit Privy
U.S. Public Health Service, 1949. (Sanitation series) Reviews material presented in motion picture, same title. *(CDC–5–119; 70 frames, synchronized disc, 10 minutes)*
..... 27

Contour Face Milling
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 3) Reviews material presented in motion picture, same title. *(OE 227; 30 frames)*
..... 41

Convenient Storage Spaces, a Joy to the Farm Family
U.S. Department of Agriculture, 1936. Closets, storage rooms, and equipment for saving time and work; floor plan for house well equipped with storage space. *(62 frames)*
..... 39

Cooking Good Meals
U.S. Public Health Service in cooperation with American Diabetes Association and American Dietetic Association, 1950. (Taking Care of Diabetes Series No. 8) Demonstrates suitability of recommended general cooking practices and several different ways of food preparation for the diabetic and his family. Shows various

suitable seasonings. Primarily for diabetics. (*CDC–5–148; 48 frames, color, synchronized disc, 8 minutes*)
..... 27

Cooking Meat According to Cut
U.S. Department of Agriculture, 1947. How to cook various cuts of meat to conserve food value and bring out flavor to fullest extent. Revision. (*54 frames*)
..... 39

Cooking Poultry, Older Birds
U.S. Department of Agriculture, 1939. Steps in braising, casseroling, steaming, and stewing older birds; suggestions for typical dishes. (*38 frames*)
..... 39

Cooking Poultry, Young Birds
U.S. Department of Agriculture, 1939. How to broil, pan fry, French fry, roast and cook young birds (*51 frames*)
..... 39

Cooling System
U.S. Coast Guard, 1943. Use of water jackets and circulating pump to cool modern engine. (*58 frames*)
..... 41

The Cooling System and Fuel System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 4) Reviews material presented in motion picture, same title. (*OE 464; 44 frames*)
..... 41

The Coppersmith: Flaring and Reducing
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Reviews material presented in motion picture, same title. (*SN 2346–m; 43 frames*)
..... 41

The Coppersmith: Working Out Branches from a Line
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Reviews material presented in motion picture, same title. (*SN 2346–n; 63 frames*)
..... 41

Corn Belt Farmers Fight Erosion
U.S. Department of Agriculture, 1939. How to fight erosion by contour farming, terracing, rotation planting, diversion drainage, and check dams. (*43 frames*)
..... 39

Correcting the Compass
U.S. Coast Guard, 1944. (Piloting Series) How to correct compass reading to determine direction of magnetic and true north; how vessel's location affects variation in amount and direction; how deviation differs on various courses of ship; how to correct and uncorrect compass reading. (*47 frames*)
..... 41

Corrosion
U.S. Department of the Navy, 1942. How to prevent and to remove corrosion. Aircraft communications demonstration film. (*SN 646; 33 frames*)
..... 41

The Cost of an Error
U.S. Department of the Army, 1944. (On-the-Job-Supervision Series No. 1) How an error on a routing sheet for an overseas shipment of material resulted in a delay causing hundreds of battle casualties and almost the loss of a battle. (*SFS 80–2; ?? frames, synchronized disc, 15 minutes*)
..... 41

The Cost of Poor Roads
U.S. Bureau of Public Roads, 1936. How direct and indirect costs of poor roads contrast with benefits of good roads. (*53 frames*)
..... 6

The Cotton Flea Hopper and Its Control
U.S. Department of Agriculture, 1939. Life stages of insect; plants attacked; damage caused; control measures; and dusting equipment in use. (*43 frames*)
..... 39

Countersinking, Counterboring, and Spotfacing
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Drill Press. Vertical Drill No. 2) Re-

views material presented in motion picture, same title. (*OE 48; 49 frames*)
..... 41

The County Agent
U.S. Department of Agriculture, 1944. The country agent, his agricultural background, activities, influence, and role as a rural leader; educational program of U.S. Department of Agriculture. (*64 frames; single; also double*)
..... 39

Covering Hot and Cold Pipes
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipe Installation No. 1) Reviews material presented in motion picture, same title. (*OE 109; 54 frames*)
..... 41

Covering With Fabric
U.S. Department of the Navy, 1942. Blanket and envelope method of wing covering; various covering operations used before rib stitching. (*SN 182; 65 frames*)
..... 41

Criminal At Large
U.S. Public Health Service, 1945. (Malaria Control Series) Reviews material presented in motion picture, same title. (*CDC–5–004; 65 frames, color, synchronized disc, 12 minutes*)
..... 27

Crop Reporting in the United States
U.S. Department of Agriculture, 1950. Compilation based on farmer questionnaires regarding acreage, production, livestock, and other produce, and cost for supplies and labor; how to reduce risk in buying, selling and handling farm produce. (*34 frames; single and double*)
..... 39

Crops of the Americas
U.S. Department of Agriculture, 1948. Wide variety of products of South and Central America used in exchange in commerce with the United States. (*41 frames; single; also double*)
..... 39

Crops of the Americas
U.S. Department of Agriculture, 1949. Wide variety of products of South and Central America used in exchange in commerce with the United States. Revision. (*44 frames; double, color*)
..... 42

Culicidae Mosquitoes
U.S. Department of the Navy, 1944. (Field Sanitation. Series No. 2) Life cycle and habitats of mosquitoes; control measures; malaria control on tropical fronts. Special film for medical personnel. (*SN 1934–b; 96 frames, color, synchronized disc, 10 minutes*)
..... 41

Current and Electromotive Force
U.S. Department of the Navy, 1945. (Radio Technician Training Series. Elementary Electricity) Reviews material presented in motion picture, same title. (*SN 1540–at; 38 frames*)
..... 41

Cutting a Dovetail Taper Slide
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 2) Reviews material presented in motion picture, same title. (*OE 73; 38 frames*)
..... 41

Cutting a Keyway on End of a Finished Shaft
U.S. Office of Education, 1941. (Machine Shop Work Series. Operations on the Shaper No. 1) Reviews material presented in motion picture, same title. (*OE 19; 42 frames*)
..... 41

Cutting a Round End Keyway
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 3) Reviews material presented in motion picture, same title. (*OE 74; 32 frames*)
..... 41

Cutting a Short Rack
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 6) Reviews ma-

terial presented in motion picture, same title. (*OE 208; 36 frames*)
..... 41

Cutting a Taper With the Compound Rest and With a Taper Attachment
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 3) Reviews material presented in motion picture, same title. (*OE 8; 41 frames*)
..... 41

Cutting an External Acme Thread
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 7) Reviews material presented in motion picture, same title. (*OE 45; 63 frames*)
..... 41

Cutting an External National Fine Thread
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 5) Reviews material presented in motion picture, same title. (*OE 10; 44 frames*)
..... 41

Cutting an Internal Acme Thread
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 8) Reviews material presented in motion picture, same title. (*OE 56; 38 frames*)
..... 41

Cutting an Internal Taper Pipe Thread
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 9) Reviews material presented in motion picture, same title. (*OE 57; 35 frames*)
..... 41

Cutting and Boning a Forequarter of Beef
U.S. Office of Education, 1945. (Farm Work Series. Meat Cutting No. 1) Reviews material presented in motion picture, same title. (*OE 456; 50 frames*)
..... 41

Cutting and Boning a Hindquarter of Beef
U.S. Office of Education, 1945. (Farm Work Series. Meat Cutting No. 2) Reviews material presented in motion picture, same title. (*OE 457; 49 frames*)
..... 41

Cutting and Threading Pipe by Hand
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 2) Reviews material presented in motion picture, same title. (*OE 106; 47 frames*)
..... 41

Cutting and Threading Pipe on a Power Machine
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 3) Reviews material presented in motion picture, same title. (*OE 107; 48 frames*)
..... 41

Cutting Cove Molding and a Corebox
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 4) Reviews material presented in motion picture, same title. (*OE 311; 41 frames*)
..... 41

Cutting Grooves with Circular Saw Blades
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 3) Reviews material presented in motion picture, same title. (*OE 320; 56 frames*)
..... 41

Cutting Keyways
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Milling Machine No. 1) Reviews material presented in motion picture, same title. (*OE 12; 42 frames*)
..... 41

Cutting Teeth on a Worm Gear
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 9) Reviews material presented in motion picture, same title. (*OE 211; 40 frames*)
..... 41

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Cutting Tenons and Segments
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 3) Reviews material presented in motion picture, same title. (*OE 308; 32 frames*)
..... 41

Cutting Threads With Taps and Dies
U.S. Office of Education, 1943. (Machine Shop Work Series. Bench Work No. 1) Reviews material presented in motion picture, same title. (*OE 34; 48 frames*)
..... 41

Cutting With Carbide Tools. Part 1: Single Point
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 4) Reviews material presented in motion picture, same title. (*OE 244; 40 frames*)
..... 41

Cutting With Carbide Tools. Part 2: Milling Cutters
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 5) Reviews material presented in motion picture, same title. (*OE 245; 34 frames*)
..... 41

Cylinder and Piston Assemblies
U.S. Department of the Air Force, 1942. Inspection of cylinder and piston defects; use of thickness gage and micrometer. (*FS 1–27; 32 frames*)
..... 41

Cylinder and Valve Maintenance
U.S. Department of the Navy, 1946. Condition of the gaseous interior; the cylinder itself and the valve. (*SN 6121–d; 123 frames, color, synchronized disc, 18 minutes*)
..... 41

Cylinder Inspection and Filling
U.S. Department of the Navy, 1946. (Navy Industrial Gases Series) How to inspect cylinder for defects and verify indications of cylinder type; fill cylinder; check against gas manual and appropriate filling table. (*SN 6121–c; 126 frames, color, synchronized disc, 20 minutes*)
..... 41

D.C. Motor. Part 1: Mechanical Overhaul
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 1) Reviews material presented in motion picture, same title. (*OE 392; 37 frames*)
..... 41

D.C. Motor. Part 2: Rewinding
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 2) Reviews material presented in motion picture, same title. (*OE 393; 43 frames*)
..... 41

The Dairy Herd Improvement Association: Identification and Permanent Record Program
U.S. Department of Agriculture, 1939. Tester eartags animals and reports findings to U.S. Bureau of Dairy Industry for tracing family lines for superior cows. (*38 frames*)
..... 39

DDT As a Mosquito Larvicide
U.S. Public Health Service, 1947. (Malaria Control Series) Reviews material presented in motion picture, same title. (*CDC–5–074; 81 frames, synchronized disc, 17 minutes*)
..... 27

Dead Reckoning
U.S. Department of the Navy, 1942. Theory of dead reckoning; its practical applications. (*SN 304; 69 frames*)
..... 7

The Deck: Setting a Web Frame and a Transverse Beam
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 6) Reviews material presented in motion picture, same title. (*OE 29; 47 frames*)
..... 41

Deck Girders: Subassembly
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 5) Reviews material presented in motion picture, same title. (*OE 28; 44 frames*)
..... 41

Deck Plates: Regulating and Setting
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 10) Reviews material presented in motion picture, same title. (*OE 33; 38 frames*)
..... 41

Deflasking the Cured Denture
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–h; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

De-Icer Servicing and Installation
U.S. Department of the Navy, 1942. Principle of operation, installation and servicing of Goodrich de-icer. (*SN 151; 80 frames*)
..... 7

De-Icing Equipment
U.S. Department of the Air Force, 1942. How de-icing mechanism works: the pumps and valves necessary for proper functioning of the de-icer shoes. (*FS 1–208; 38 frames*)
..... 7

Designing a Pattern for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 337; 41 frames*)
..... 41

Designing Core Boxes for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 338; 30 frames*)
..... 41

Detection (RM-BTRS)
U.S. Department of the Navy, 1942. How a radio wave is detected and isolated. (*SN 651; 33 frames*)
..... 41

Diabetic Coma
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 9) To teach patient understanding of nature, symptoms, seriousness, and prevention of diabetic coma. Stresses importance of daily urine tests, meal plan, and correct insulin dosage to control diabetes and avoid coma. Primarily for diabetics. (*CDC–5–149; 33 frames, color, synchronized disc, 5 minutes*)
..... 27

Diagnosis of Bee Diseases in the Apiary
U.S. Department of Agriculture, 1942. Symptoms and methods of control of various bee diseases. For extension workers, State apiary inspectors, and instructors in agriculture. Revision. (*58 frames*)
..... 39

Diagnosis of Enterobiasis
U.S. Public Health Service, 1950. Pinworm life cycle; identifying characteristics; migration habits; activity area; current and past diagnostic methods and their disadvantages; advantages of cellulose tape method. For medical personnel. (*CDC–5–164; 40 frames*)
..... 27

The Diagnosis of Primary Syphilis
U.S. Public Health Service, 1949. How to diagnose primary syphilis: common errors in diagnosis; common and atypical syphilitic lesions; differential diagnosis; and darkfield examination. Photographs, drawings, and photomicrographs. (*CDC–5–087; 71 frames, color, synchronized disc, 9 minutes*)
..... 27

Diaphragm Instruments
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Speed

and altitude instruments: airspeed meter; vertical speed indicator; sensitive altimeter; power control instruments; manifold pressure gage; tachometer. (*SN 1059–a; 59 frames, synchronized disc, 21 minutes*)
..... 41

The Difficult Ones. Parts 1, 2, and 3
U.S. Veterans' Administration, 1946. How to recognize and deal with neuropsychiatric contacts. Pt. 1: "Psychiatric Problems Met by the Contact Representative"; Pt. 2: "The Difficult One's Effect on the Contact Representative"; Pt. 3: "Getting Help for Veterans With Emotion Problems." For professional personnel and medical students. (*122 frames*)
..... 31

Dimpling and Countersinking
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 4) Reviews material presented in motion picture, same title. (*OE 139; 57 frames*)
..... 41

The Diode: Principles and Applications
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 2) Reviews material presented in motion picture, same title. (*OE 176; 58 frames*)
..... 41

Direct Current Controllers
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 1) Reviews material presented in motion picture, same title. (*OE 388; 27 frames*)
..... 41

Directional Valves
U.S. Department of the Navy, 1945. (Hydraulic Valves Series) Purpose, construction, operation, use, and various types of directional valves; common valve casualties; causes; remedies and other types valves in hydraulic systems. (*SN 1809–d; 96 frames, synchronized disc, 18 minutes*)
..... 7

Disassembling the Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 268; 38 frames*)
..... 41

Disassembly of Hub and Blades
U.S. Department of the Air Force, 1943. (Curtiss Electric Propeller Series. Standard Unit) How to disassemble the hub, slip ring, brush block, and both hollow steel and aluminum alloy blades. (*FS 1–289; 50 frames*)
..... 7

Disassembly of the Power Unit
U.S. Department of the Air Force, 1943. (Curtiss Electric Propeller Series. Standard Unit) How to disassemble the Curtiss Standard Unit Electric Propeller: power gear, brake, motor, speed reducer and spiders. (*FS 1–266; 70 frames*)
..... 7

Diseases of Cabbage and Related Crops
U.S. Department of Agriculture, 1936. Causes, effects, and control measures of these diseases in photomicrographs, tables, charts, photographs, and readers. (*53 frames*)
..... 39

Diseases of Cereals
U.S. Department of Agriculture, 1949. Common diseases of cereals; symptoms and effects. (*81 frames: double, color*)
..... 42

Diseases of Fruit
U.S. Department of Agriculture, 1949. Common diseases of fruit; symptoms and effects. (*53 frames: double, color*)
..... 42

Diseases of Vegetables
U.S. Department of Agriculture, 1949. Common diseases of vegetables; symptoms and effects. (*103 frames: double, color*)
..... 42

Dividers, Parallel Rulers, Protractors
U.S. Coast Guard, 1943. (Piloting Series) Characteristics and uses. (*33 frames*)
..... 41

Do You Know? A Picture Quiz on Farm Safety
U.S. Department of Agriculture, 1945. How to prevent accidents in farm home and on farm. To be used as regular filmstrip, discussion guide, and safety quiz. (*28 frames*)
..... 39

Double Carrick Bend
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*23 frames*)
..... 41

Double Ram Vertical Surface Broaching
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Broaching Machine No. 3) Reviews material presented in motion picture, same title. (*OE 238; 34 frames*)
..... 41

Draw Bench Operations
U.S. Department of the Navy, 1942. Purpose of draw bench; how to set up draw bench and make a pattern; and operate machine. (*SN 258; 54 frames*)
..... 41

Dressings and Bandages. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) Materials used and how to apply bandages to wounds. Straight photography, titles. (*SN 221–a; 52 frames, synchronized disc, 13 minutes*)
..... 41

Dressings and Bandages. Part 2
U.S. Department of the Navy, 1942. (First Aid Series) How to apply triangular head bandage, cravat bandage for scalp, forehead, eye, arm, forearm; roller gauze bandages for fingers, arm, leg; four-tailed bandage for chin, jaw, nose, head, crotch. Straight photography. (*SN 221–b; 42 frames, synchronized disc, 11 minutes*)
..... 41

Driftmeters
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series. Dead Reckoning Instruments No. 1) Nature of drift and its effect on aircraft; construction of driftmeters and how they function. (*FS 1–324; 56 frames*)
..... 7

The Drill Press
U.S. Office of Education, 1945. (Machine Shop Work Series. Basic Machines) Reviews material presented in motion picture, same title. (*OE 71; 32 frames*)
..... 41

Drilling a Hole in a Pin
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Drill Press. Sensitive Drill No. 1) Reviews material presented in motion picture, same title. (*OE 46; 35 frames*)
..... 41

Drilling and Tapping Cast Steel
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Drill Press. Radial Drill No. 1) Reviews material presented in motion picture, same title. (*OE 22; 48 frames*)
..... 41

Drilling, Boring, and Reaming Work Held in Chuck
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 4) Reviews material presented in motion picture, same title. (*OE 9; 47 frames*)
..... 41

Drilling, Tapping, Stub-Boring, and Reaming
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 6) Reviews material presented in motion picture, same title. (*OE 230; 29 frames*)
..... 41

Drilling to a Layout and Spot-Facing Cast Iron
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Drill Press. Radial Drill No. 2) Reviews material presented in motion picture, same title. (*OE 23; 37 frames*)
..... 41

Drilling with Portable Drill Motors
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 3) Reviews material presented in motion picture, same title. (*OE 138; 45 frames*)
..... 41

Driving and Bucking Rivets
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 5) Reviews material presented in motion picture, same title. (*OE 140; 47 frames*)
..... 41

Dust-Explosion Hazards in Fire Fighting
U.S. Department of Agriculture, 1938. Conditions causing dust explosions; how to avoid hazards and explosions in fire fighting. (*48 frames*)
..... 39

Dwelling Unit and Type of Structure
U.S. Bureau of the Census, 1949. Definition and examples of "dwelling unit" and "structure." (*64 frames, synchronized microgroove disc, 13 minutes; also script*)
..... 5

Earth's Surface
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series. Elementary Dead Reckoning No. 1) How to define longitude, latitude, statute mile, nautical mile, rhumb line and other aerial navigation terms; how to use longitude and latitude to locate positions of points on earth's surface. (*FS 1–249; 54 frames*)
..... 7

Eating for Good Health
U.S. Public Health Service in cooperation with American Diabetes Association and American Dietetic Association, 1950. (Taking Care of Diabetes Series No. 2) Important role of food in controlling diabetes and maintaining good health. Primarily for diabetics. (*CDC–5–142; 46 frames, color, synchronized disc, 7 minutes*)
..... 27

Effect of Controls
U.S. Department of the Air Force, 1942. (Elementary Pilot Training Series No. 2) Function of basic controls and what happens when each is used. (*FS 1–98; 54 frames*)
..... 41

Effective Study Methods
U.S. Department of the Air Force, 1942. Proper study conditions: temperature, quiet, lighting, time limit; study techniques: note taking, outlining, planning method of study, use of references, relating theory to practical experience, understanding relationships. (*FS 1–63; 43 frames*)
..... 41

Electrical Circuit Faults
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 375; 39 frames*)
..... 41

The Electrokymograph
U.S. Public Health Service, 1950. Principles, development and operation of electrokymograph; electrokymograph records and their study. Primarily for medical, other professional, and research personnel. (*50 frames, synchronized disc, 14 minutes*)
..... 26

The Electron: An Introduction
U.S. Office of Education, 1944. (Engineering Series. Electronics No. 1) Reviews material presented in motion picture, same title. (*OE 175; 40 frames*)
..... 41

Elements of Hardening
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 1) Reviews material presented in motion picture, same title. (*OE 170; 40 frames*)
..... 41

Elements of Surface Hardening
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 3) Reviews material presented in motion picture, same title. (*OE 172; 36 frames*)
..... 41

Elements of Tempering, Normalizing, and Annealing
U.S. Office of Education, 1945. (Engineering Series. Heat Treatment of Steel No. 2) Reviews material presented in motion picture, same title. (*OE 171; 31 frames*)
..... 41

Emergency Seaplane Repair
U.S. Department of the Navy, 1943. How to temporarily seal holes in the hulls of flying boats and seaplanes both at sea and when beached. (*SN 1996; 43 frames*)
..... 41

Endfeed Grinding a Tapered Pin
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 5) Reviews material presented in motion picture, same title. (*OE 89; 42 frames*)
..... 41

The Engine Assembly
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 3) Reviews material presented in motion picture, same title. (*OE 463; 42 frames*)
..... 41

Engine Change: Installation
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 273; 47 frames*)
..... 41

Engine Change: Removal
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 272; 50 frames*)
..... 41

Engine Instruments
U.S. Department of the Navy, 1942. Function and use of airplane engine instruments. (*SN 802; 60 frames*)
..... 7

Engine Lubricating System
U.S. Coast Guard, 1942. How splash and pressure systems of lubrication are employed in a modern engine. (*59 frames*)
..... 41

Engine Tests and Tune Up
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 5) Reviews material presented in motion picture, same title. (*OE 465; 50 frames*)
..... 41

Eradicating Tuberculosis from Livestock and Poultry
U.S. Department of Agriculture, 1939. Types of tubercle bacilli causing disease in farm animals; tuberculin testing; effects of disease; its prevention. (*36 frames*)
..... 39

Eradication of Foot-and-Mouth Disease in the United States
U.S. Department of Agriculture, 1948. Symptoms of disease; importance of destroying diseased animals, cleaning and disinfecting premises, and reporting suspected cases to livestock authorities. (*33 frames: single; also double*)
..... 39

Enroute Procedure
U.S. Department of the Navy, 1944. (Instrument Flight Control Series. Airport and Airway Traffic Control Procedure No. 2) Actions taken by pilot enroute; how airway traffic control personnel keep each flight posted and issue instructions to insure safe passage during instrument weather conditions. Revision, same title,

also available. (*SN 1059–q; 49 frames, synchronized disc, [20?] minutes*)
..... 41

Enroute Procedure
U.S. Department of the Navy, 1944. (Instrument Flight Control Series. Airport and Airway Traffic Control Procedure No. 2) Actions taken by pilot enroute; how airway traffic control personnel keep each flight posted and issue instructions to insure safe passage during instrument weather conditions. Revision. (*SN 1059–af; 49 frames, synchronized disc, 12 minutes*)
..... 7

Equipment For Hand Spraying Of DDT
U.S. Public Health Service, 1947. (Malaria Control Series) Reviews several types of hand sprayers and their parts, suitable truck with four wheel drive and air compressor, and spare parts and tools for repairs in field. Photographs. (*CDC–5–084; 67 frames, synchronized disc, 13 minutes*)
..... 27

E-6B Computer: Solution of Wind Triangles
U.S. Department of the Air Force [1943?] Construction of computer; rules for using computer to solve vector triangles; how to solve typical vector triangles with computer. (*FS 1–423; 57 frames*)
..... 7

Establishment and Maintenance of Grassed Waterways
U.S. Department of Agriculture, 1939. How to slope and seed destructive gullies to serve as waterways. (*29 frames*)
..... 39

Evaluating DDT Dusting in Murine Typhus Control
U.S. Public Health Service, 1945. (Typhus Control Series) Procedure and data comparison for evaluating effectiveness of DDT dusting as a supplementary measure in murine typhus control. Photographs and labels. (*CDC–5–026; 101 frames, synchronized disc, 13 minutes*)
..... 27

The Examination
U.S. Department of the Army, 1947. (Examining Personnel for Civilian Employment Series No. 3) The job analysis; determination of essential personal characteristics for doing the work; and the development, administration, and validation of the examination. (*SFS 61–6; ?? frames, synchronized disc, 20 minutes*)
..... 41

Exhaust and Intake Manifolds: Ranger
U.S. Department of the Navy, 1942. How to remove, inspect and install exhaust and intake manifolds on Ranger engine. (*SN 1323; 45 frames*)
..... 41

Exhaust and Intake Manifolds: Whirlwind
U.S. Department of the Navy, 1942. How to remove, inspect and install exhaust and intake manifolds on Whirlwind engine. (*SN 1324; 30 frames*)
..... 41

Exhibit Ideas
U.S. Department of Agriculture, 1942. Training film for county agents on planning effective but inexpensive exhibits; photographs of exhibits analyzed and criticized in notes. (*37 frames*)
..... 39

Fabricating Metal Aircraft
U.S. Office of Education, 1945. (Aircraft Work Series. Metal Fabrication) Reviews material presented in motion picture, same title. (*OE 288; 40 frames*)
..... 41

Fabrication of Tubing
U.S. Department of the Navy, 1941. Fabrication and installation of copper, aluminum, and dural tubing, including making the pattern, cutting the new tubing, annealing, removing kinks and bends, bending, and fitting. An aircraft machine shop demonstration film. (*SN 56; 60 frames*)
..... 7

Face Milling With a Fixture
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the

Horizontal Boring Mill No. 2) Reviews material presented in motion picture, same title. (*OE 226; 30 frames*)
..... 41

Face Planing Uneven Surfaces
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 3) Reviews material presented in motion picture, same title. (*OE 304; 40 frames*)
..... 41

Face Turning a Collar
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 5) Reviews material presented in motion picture, same title. (*OE 317; 39 frames*)
..... 41

Facing, Turning, Boring, Grooving and Chamfering
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 3) Reviews material presented in motion picture, same title. (*OE 18; 52 frames*)
..... 41

Facts About Cotton and Southern Farming
U.S. Department of Agriculture, 1946. Self-explanatory graphs of today's cotton problems. (*63 frames: double*)
..... 39

Falciparum Malaria
U.S. Public Health Service, 1948. (Malaria Control Series) Simple biology of P. falciparum infections in man: distribution, significance, clinical manifestations, diagnosis, treatment, and prevention. Importance of accurate diagnosis, quantitative counts, specific prescription, and suppression. Cartoons, drawings, and graphs. (*CDC–5–040; 77 frames, color, synchronized disc, 17 minutes*)
..... 27

Famous Trees in the United States
U.S. Department of Agriculture, 1939. Famous trees commemorating historic events, noted for size, age, or unusual form, or planted by farsighted early national leaders. (*80 frames*)
..... 39

The Farm and the Farm Woods
U.S. Department of Agriculture, 1942. How to manage and care for farm woods for high-quality products for home use and sale. (*48 frames: single; also double*)
..... 39

Farm Forestry Extension in the United States
U.S. Department of Agriculture, 1936. Benefits of growing forest trees on farm woodlands under direction of State extension foresters and county agents. (*69 frames*)
..... 39

Farm Forestry in the South
U.S. Department of Agriculture, 1937. How farm woodland management pays; how to grow various trees for profit (*64 frames*)
..... 39

Farm Photography
U.S. Department of Agriculture, 1947. Ideas based on years of experience and how to adapt them to general photographic work. (*28 frames: single; also double*)
..... 39

Farm To Fit Your Land
U.S. Department of Agriculture, 1947. How to best use and treat land for practical purposes; how to classify land for best product with greatest productivity. (*62 frames: single; also double*)
..... 39

Farm Water Supply
U.S. Department of Agriculture, 1937. Sources of water supply; aids for cleanliness; and means of making water available for stock and home. Drawings, readers, and photographs. Revision. (*48 frames*)
..... 39

The Fathometer
U.S. Coast Guard, 1944. (Piloting Series) Use and operation of three sounding devices for measuring water depth: lead, patent sounding machine, fathometer. (*37 frames*)
..... 41

Federal Airways Service
U.S. Civil Aeronautics Administration, 1945. Functions and branches of Federal Airways Service as related to control of air traffic. (*34 frames, synchronized disc, 14 minutes*)
..... 7, 41

Federal Meat Inspection
U.S. Department of Agriculture, 1945. Contrasts conditions with and without Federal meat inspection; work of officials: inspecting live animals, carcasses and parts, stamping, tagging; cooling, cutting up, trimming, packing, and shipping meat. Reissue. (*42 frames*)
..... 39

Feeding and Care of the Dairy Calf
U.S. Department of Agriculture, 1942. Housing, health, training, feeding and earmarking of dairy calf from birth. Charts. (*49 frames*)
..... 39

Feeding the Patient
U.S. Office of Education, 1944. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 404; 42 frames*)
..... 41

Feedwater
U.S. Coast Guard, 1943. (Ship's Engines Series) Parts and function of feedwater system; advantages of open direct-contact type and closed type heater; feed, semiclosed feed, and closed feed systems in diagrams. (*60 frames*)
..... 41

Field Training for Public Health Workers
U.S. Public Health Service, 1949. CDC Training Service program of inservice training for public health employees; orientation courses for new personnel; and classes in American public health practices for foreign public health administrators. (*CDC–5–134; 90 frames, color, synchronized disc, 10 minutes*)
..... 27

The Fight Against Rabies
U.S. Public Health Service, 1947. Danger of rabies; symptoms in infected dogs; measures for eliminating rabies: annual anti-rabies vaccination and control of strays; case history of dog and child. Photographs and drawings. (*CDC–5–093; 89 frames, synchronized disc, 14 minutes*)
..... 27

Filariasis
U.S. Public Health Service, 1947. Etiologic study of Bancrofti's filariasis; geographic endemic areas; life cycle of Wuchereria bancrofti; exposure history, lymphatic pathology; presumptive diagnosis; treatment, supportive and psychotherapy; prevention. Photographs, drawings and maps. (*CDC–5–036; 95 frames, color, synchronized disc, 21 minutes*)
..... 27

Filing an Internal Irregular Shape
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Metal Cutting Band Saw No. 2) Reviews material presented in motion picture, same title. (*OE 240; 31 frames*)
..... 41

Filing and Installing Chocks
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 3) Reviews material presented in motion picture, same title. (*OE 97; 34 frames*)
..... 41

Filing Template Metal
U.S. Office of Education, 1943. (Aircraft Work Series. Templates No. 5) Reviews material presented in motion picture, same title. (*OE 129; 39 frames*)
..... 41

Fillet Welds
U.S. Department of the Navy, 1943. Tools and equipment needed; how to set up equipment and welding bench; actual

welding process; checking finished work. (*SN 2656; 21 frames*)
..... 41

Film Strip Preparation
U.S. Department of the Army, 1943. Title self-explanatory. (*FS 11–3; ?? frames*)
..... 41

Finding Minutes
U.S. Department of Agriculture, 1943. Drawings on planning work and efficient procedures to provide leisure for health and fellowship. (*43 frames: single; also double*)
..... 39

Fine Grinding: Spherical Surfaces
U.S. Office of Education with the cooperation of U. S. Department of the Navy, 1944. (Optical Craftsmanship Series) Reviews material presented in motion picture, same title. (*OE 183; 44 frames*)
..... 41

Finish Forming by Hand
U.S. Office of Education, 1943. (Aircraft Work Series. Forming Sheet Metal No. 4) Reviews material presented in motion picture, same title. (*OE 135; 38 frames*)
..... 41

Finishing and Polishing
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–i; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

Finishing Molded Parts
U.S. Office of Education, 1945. (Plastics Series No. 9) Reviews material presented in motion picture, same title. (*OE 474; 42 frames*)
..... 41

First Lessons in Beekeeping
U.S. Department of Agriculture, 1941. Standard equipment and practical method of handling bees in production of honey for home use. Revision. (*45 frames*)
..... 39

First Things First
U.S. Department of Agriculture, 1943. How grassing of waterways controls erosion directing run-off on greater slopes while contouring holds it on land of gentle slope. (*25 frames*)
..... 39

Fitting and Installing a Section of Piping Aboard Ship
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) Reviews material presented in motion picture, same title. (*SN 2337–p; 66 frames*)
..... 41

Fitting and Scraping Small Bearings
U.S. Office of Education, 1943. (Machine Shop Work Series. Bench Work No. 3) Reviews material presented in motion picture, same title. (*OE 36; 50 frames*)
..... 41

Fitting Dresses
U.S. Department of Agriculture, 1950. How to make simple alterations to correct more common dress-fitting problems. (*31 frames: double, color*)
..... 42

Fixed Gages
U.S. Office of Education, 1943. (Machine Shop Work Series. Precision Measurement No. 3) Reviews material presented in motion picture, same title. (*OE 3; 35 frames*)
..... 41

Flasking Full Dentures
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–f; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

Flasking of Partial Dentures
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN*

5372–l; 40 frames, color, synchronized disc, 10 minutes)
..... 41

Flight Control Systems
U.S. Department of the Navy, 1943. Operation of simple wire control system using stick and rubber pedals; torque tube systems; combinations of torque tubes and wires; push-pull tubes; wheel control in aircraft construction. Revision. (*SN 1997; 49 frames*)
..... 41

Flight Instruments
U.S. Department of the Navy, 1942. Operation of instruments relating to flight; their basic construction; common causes of faulty readings; compensations required for altitude and temperature factors. (*SN 801; 91 frames*)
..... 7

Flower Gardens
U.S. Department of Agriculture, 1938. Parade of informal, formal, and special gardens. (*64 frames*)
..... 39

Flue Gas Analysis (Orsat Apparatus)
U.S. Office of Education, 1944. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 367; 43 frames*)
..... 41

Fly Density Surveys by the Grill Method
U.S. Public Health Service, 1949. Reviews material presented in motion picture, same title. (*CDC–5–133; 28 frames, color*)
..... 27

Forced Landings
U.S. Department of the Air Force [1943?] Common causes of forced landings; proper procedures to follow for forced landings under various conditions; how to establish a safe glide; secure field; and maneuver into best position. (*FS 1–11; 71 frames*)
..... 7

Forces in Flight
U.S. Department of the Navy, 1942. How aerodynamic forces act on the wing in relation to control surfaces and center of gravity. (*SN 807; 72 frames*)
..... 7

Fore Poppets and Internal Shoring Construction
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series. Preparation for Stern Launching) Reviews material presented in motion picture, same title. (*SN 2341–m; 75 frames*)
..... 41

Forestry and Human Welfare
U.S. Department of Agriculture, 1938. How forests contribute to the grazing of livestock and game, water supply, and recreation. (*59 frames*)
..... 39

Forge Welding
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 2) Reviews material presented in motion picture, same title. (*OE 192; 26 frames*)
..... 41

Forging With a Hand Forge
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 1) Reviews material presented in motion picture, same title. (*OE 191; 48 frames*)
..... 41

Form Blocks and Forming
U.S. Department of the Navy, 1942. How to shape metal with forming blocks; use dies for flanging, making hollows, and forming joggles. (*SN 1037; 67 frames*)
..... 41

Forming on a Hand Operated Brake
U.S. Office of Education, 1944. (Aircraft Work Series. Forming Sheet Metal No. 3) Reviews material presented in motion picture, same title. (*OE 134; 51 frames*)
..... 41

Forming on Rotary Machines
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No.

2) Reviews material presented in motion picture, same title. (*OE 290; 38 frames*)
..... 41

Forming on the Stretching Machine
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No. 6) Reviews material presented in motion picture, same title. (*OE 251; 36 frames*)
..... 41

Forming Outside and Inside Flanges
U.S. Department of the Navy, 1942. Why an outside flange on a circular piece of metal must be shrunk and an inside flange stretched. (*SN 295; 51 frames*)
..... 41

Forming with a Drop Hammer
U.S. Office of Education, 1945. (Aircraft Work Series. Forming Sheet Metal No. 5) Reviews material presented in motion picture, same title. (*OE 291; 41 frames*)
..... 41

Forming With Rubber on the Hydraulic Press
U.S. Office of Education, 1944. (Aircraft Work Series. Forming Sheet Metal No. 1) Reviews material presented in motion picture, same title. (*OE 133; 37 frames*)
..... 41

The Four Steps
U.S. Department of the Army, 1945. (On-the-Job-Supervision Series No. 4) A four point system for instructing new employees; each point dramatized. (*SFS 80–5; ?? frames, synchronized disc, 15 minutes*)
..... 41

The Four-Stroke Cycle Internal Combustion Engine. Part 1
U.S. Coast Guard, 1942. (Internal Combustion Engines Series) Basic principles of four-cycle combustion engines. (*39 frames*)
..... 41

The Four-Stroke Cycle Internal Combustion Engine. Part 2
U.S. Coast Guard, 1943. (Internal Combustion Engines Series) Basic principles of valve mechanisms, crankshaft, mechanical timing, and differences in basic cylinder head design. (*44 frames*)
..... 41

Fractures. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) Two principal types of fractures; how to treat leg, forearm, upper arm, elbow, finger, and collarbone fractures. Straight photography and drawings. (*SN 223–a; 55 frames, synchronized disc, 12 minutes*)
..... 41

Fractures. Part 2
U.S. Department of the Navy, 1942. (First Aid Series) How to treat skull, nose, jaw, spine, rib, pelvis, thigh, kneecap, foot, toe fractures. Five general first aid rules. Straight photography and drawings. (*SN 223–b; 55 frames, synchronized disc, 13 minutes*)
..... 41

Fractures. Part 3
U.S. Department of the Navy, 1942. (First Aid Series) How to apply and adjust commercial and improvised traction splints. Straight photography and drawings. (*SN 223–c; 64 frames, synchronized disc, 15 minutes*)
..... 41

French Bowline
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*28 frames*)
..... 41

Frontiers of Grass: A Story of the Western Range
U.S. Department of Agriculture, 1939. Development and decline of western range; how AAA range conservation program helps ranchers restore and protect grazing and watering places. (*64 frames*)
..... 39

Frozen-Food Lockers and Your Food Supply
U.S. Department of Agriculture, 1940. How to stretch income with home-raised food frozen and stored in locker plant; types of lockers, floor plan for complete locker plant, home-made freezer chest;

how to grow and prepare plant and animal foods for freezing. (*63 frames*)
..... 39

Fuel and Feed
U.S. Department of the Navy, 1942. Operation of gravity and pressure fuel feed systems; nature and importance of various parts of those systems; dangers and causes of vapor lock. Aircraft construction demonstration film. (*SN 801; 80 frames*)
..... 7

Fuel Feed Systems
U.S. Coast Guard, 1943. Diagrams of gravity feed and pressure feed systems; operation of plunger-type and diaphragm pumps. (*27 frames*)
..... 41

Fuel Level Gages
U.S. Department of the Air Force, 1942. (Instruments Series) Mechanical and electrical gages; operating principles; methods of inspection, and maintenance. (*FS 1–58; 41 frames*)
..... 7, 41

Fueling Seaplanes
U.S. Department of the Navy, 1942. How to refuel afloat by a small boat and by coming alongside a seaplane tender; how to refuel PBM from small boat from stern quarter and bow. (*SN 285; 67 frames*)
..... 41

Full Denture Reconstruction
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–k; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

The Fulton Sylphon Diesel Engine Temperature Control Valve: Operation and Adjustment
U.S. Department of the Navy, 1944. How valve works, what it does and how to make adjustments; operation of manual check to be used when regulator is not functioning. (*SN 3375; 90 frames, synchronized disc, [10?] minutes*)
..... 41

Fundamental Lines and Sections
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Nomenclature of Ships) Reviews material presented in motion picture, same title. (*SN 2334–m; 98 frames*)
..... 41

Fundamentals of Detergents
U.S. Public Health Service, 1949. Fundamental principles of detergents. How to mix basic chemicals to suit each cleaning problem. Five experiments explain cleaning action of a synthetic detergent. Photographs and drawings. (*CDC–5–079; 72 frames, synchronized disc, 9 minutes*)
..... 27

Fundamentals of End Cutting Tools
U.S. Office of Education, 1944. (Machine Shop Work Series. Single Point Cutting Tools No. 2) Reviews material presented in motion picture. (*OE 43; 30 frames*)
..... 41

Fundamentals of Filing
U.S. Office of Education, 1944. (Machine Shop Work Series. Bench Work No. 8) Reviews material presented in motion picture, same title. (*OE 41; 52 frames*)
..... 41

Fundamentals of Massage
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 414; 47 frames*)
..... 41

Fundamentals of Side Cutting Tools
U.S. Office of Education, 1944. (Machine Shop Work Series. Single Point Cutting Tools No. 1) Reviews material presented in motion picture, same title. (*OE 42; 27 frames*)
..... 41

Gage Blocks and Accessories
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 8) Reviews material presented in motion picture, same title. (*OE 246; 33 frames*)
..... 41

Gardening Cartoons: A Dozen "Don'ts" for Gardeners
U.S. Department of Agriculture, 1942. Each cartoon accompanied by caption and garden plan. (*16 frames: double*)
..... 39

General Inspection and Control Activities at the Area Level
U.S. Public Health Service, 1945. Malaria mosquito, its life cycle and habitat; collecting, identifying and reporting; examples of control problems; control measures; evaluating results of control operations; and area supervisor's headquarters. Photomicrographs, photographs and maps. (*CDC–5–021.1; 98 frames*)
..... 27

General Principles of the Propeller
U.S. Department of the Air Force, 1942. (Instruments Series) Function and operation of aircraft propeller; thrust, pitch, angle, slip feathering, and wind-milling. (*FS 1–104; 51 frames*)
..... 41

Generator and Regulator Systems: Principles
U.S. Department of the Air Force, 1942. Principles, operation, and construction of the generator. (*FS 1–53; 65 frames*)
..... 41

George Washington, the Farmer
U.S. Department of Agriculture, 1932. Phases of early life and home surroundings as a country gentleman. Prepared for U.S. George Washington Bicentennial Commission. (*74 frames*)
..... 39

Germs Take Pot Luck
U.S. Public Health Service, 1945. (Our Health in Your Hands Series) Shows how germs cause disease, how diseases are spread, particularly in restaurants, and what restaurant workers should do to follow correct sanitation practices. For food handlers and sanitarians, general public. (*76 frames, synchronized disc, 15 minutes*)
..... 26, 41

Getting An Agriculture Questionnaire
U.S. Bureau of the Census, 1949. When an agriculture questionnaire is required; in whose name to fill it; what to do with farm acreages falling in more than one enumeration district. (*52 frames, synchronized microgroove disc, 14 minutes; also script*)
..... 5

Getting Ready to Instruct
U.S. Department of the Navy, 1942. How to prepare for job instruction; analyze job; prepare training plan. (*SN 1373; 94 frames, synchronized disc, 33 minutes*)
..... 41

Gins and Ginning
U.S. Department of Agriculture, 1938. History of ginning devices; modern ginning procedure: drying, extracting, cleaning; its effect on appearance of lint and its market value; and types of equipment in use. Drawings and photographs. (*56 frames*)
..... 39

Good Form at Key and Phones
U.S. Department of the Navy, 1942. How to adjust and use headset and sending key. (*SN 634; 46 frames*)
..... 7

Grain Inspection Methods
U.S. Department of Agriculture, 1950. Illustrates grain inspection methods described in *The Grain Grading Primer;* how samples are handled in grain inspection. (*28 frames: double, color*)
..... 42

Grasshoppers and Their Control
U.S. Department of Agriculture, 1935. Several types of common grasshoppers; life stages and cycle; damage caused; control measures: natural enemies and poisoning with prepared bait. (*41 frames*)
..... 39

Grinding a Deep Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 2) Reviews ma-

terial presented in motion picture, same title. (*OE 78; 46 frames*)
..... 41

Grinding a Parallel Bar. Part 1: Setting Up the Machine
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 1) Reviews material presented in motion picture, same title. (*OE 220; 48 frames*)
..... 41

Grinding a Parallel Bar. Part 2: Grinding Operations
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 2) Reviews material presented in motion picture, same title. (*OE 221; 44 frames*)
..... 41

Grinding a Plain Pin. Part 1: The Grinding Wheel
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 1) Reviews material presented in motion picture, same title. (*OE 80; 41 frames*)
..... 41

Grinding a Plain Pin. Part 2: Grinding Operations
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 2) Reviews material presented in motion picture, same title. (*OE 81; 36 frames*)
..... 41

Grinding a Slender Shaft With a Back Rest
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 3) Reviews material presented in motion picture, same title. (*OE 82; 29 frames*)
..... 41

Grinding a Straight Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 1) Reviews material presented in motion picture, same title. (*OE 77; 39 frames*)
..... 41

Grinding a Taper
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 5) Reviews material presented in motion picture, same title. (*OE 84; 30 frames*)
..... 41

Grinding a Template
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 3) Reviews material presented in motion picture, same title. (*OE 222; 39 frames*)
..... 41

Grinding a V Block
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Surface Grinder No. 4) Reviews material presented in motion picture, same title. (*OE 223; 51 frames*)
..... 41

Grinding and Facing a Blind Hole
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Internal Grinder No. 3) Reviews material presented in motion picture, same title. (*OE 79; 38 frames*)
..... 41

Grinding Multiple-Point Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 3) Reviews material presented in motion picture, same title. (*OE 243; 37 frames*)
..... 41

Grinding Single-Point Carbide Tools
U.S. Office of Education, 1945. (Machine Shop Work Series. Carbide Cutting Tools No. 2) Reviews material presented in motion picture, same title. (*OE 242; 38 frames*)
..... 41

Grinding Thin Discs
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the

Surface Grinder No. 5) Reviews material presented in motion picture, same title. (*OE 224; 45 frames*)
..... 41

Ground Adjustable Propellers
U.S. Department of the Air Force, 1942. Parts, removal, installation, inspection and cone bottoming of ground adjustable propellers. (*FS 1–183; 55 frames*)
..... 7

The Guided Bend Test
U.S. Office of Education, 1944. (Welding Procedures Series. Testing No. 1) Reviews material presented in motion picture, same title. (*OE 189; 62 frames*)
..... 41

Gyroscopic Instruments
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Artificial horizon; directional gyro; turn and bank. (*SN 1059–b; 66 frames, synchronized disc, 25 minutes*)
..... 41

Hand Soldering
U.S. Office of Education, 1944. (Accessory Assembly Series. Tools and Procedures No. 1) Reviews material presented in motion picture, same title. (*OE 479; 52 frames*)
..... 41

Hand Spraying of DDT
U.S. Public Health Service, 1946. (Malaria Control Series) Technique of using DDT residual spray in the home. Demonstrates hand spraying and use and care of equipment. (*CDC–5–011.2; 72 frames, synchronized disc, 15 minutes*)
..... 27

Hand Tools for Fabric Work
U.S. Department of the Navy, 1942. How to sharpen pocket knife; use and care of straight and "pinking" shears, short, straight and curved needles. (*SN 102; 55 frames*)
..... 41

Handling Livestock for Market
U.S. Office of Education, 1945. (Farm Work Series. Livestock No. 3) Reviews material presented in motion picture, same title. (*OE 459; 46 frames*)
..... 41

Handling Seaplanes on Land
U.S. Department of the Navy, 1943. After-flight care of seaplane; how to move by hand, tractor and taxiing; how to secure on land. Revision. (*SN 2786; 36 frames*)
..... 41

Hardness Testing (Rockwell)
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 5) Reviews material presented in motion picture, same title. (*OE 149; 49 frames*)
..... 41

Hatch Canopy
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series. Sailmaking) Reviews material presented in motion picture, "Hatch Canopy, Parts 1, 2, and 3." (*SN 2343–n; 90 frames*)
..... 41

Heat Treatment of Aluminum. Film 1
U.S. Office of Education, 1945. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 344; 47 frames*)
..... 41

Heat Treatment of Aluminum. Film 2
U.S. Office of Education, 1945. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 345; 41 frames*)
..... 41

Height Gages and Test Indicators
U.S. Office of Education, 1943. (Machine Shop Work Series. Precision Measurement No. 5) Reviews material presented in motion picture, same title. (*OE 5; 34 frames*)
..... 41

The Hessian Fly and Its Control
U.S. Department of Agriculture, 1947. History and life habits of the Hessian fly and measures for its control. Greatest

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usefulness in winter wheat regions. Revision. (*33 frames: single; also double*)
..... 39

High Clouds
U.S. Department of the Air Force [1943?] (Classification and Recognition of Clouds Series No. 1) Types, identifying characteristics and symbols of the high clouds; then 9 samples of typical clouds for the viewer to identify. (*FS 1–911; 26 frames, color*)
..... 7

High Frequency Soldering
U.S. Office of Education, 1944. (Accessory Assembly Series. Tools and Procedures No. 2) Reviews material presented in motion picture, same title. (*OE 480; 49 frames*)
..... 41

Highways of History
U.S. Bureau of Public Roads, 1939. How highway transportation has improved in Colonial America and the United States during the past four centuries; use of horses, canoes, early traces and post roads, canals, pony express, stages, trains, etc. (*35 frames*)
..... 6

Historic Rural Homes
U.S. Department of Agriculture, 1936. Farm homes known for their historic and architectural values and association with leaders in American farming. (*48 frames*)
..... 39

History and Development of Agricultural Implements and Machinery
U.S. Department of Agriculture, 1942. History and development of plows, cultivators, planters, seeders, grain harvesters, and threshing machines from before 1850 to early twentieth century. Revision. (*54 frames*)
..... 39

Hobbing a Helical Gear, Two Cuts: Nondifferential Method
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 5) Reviews material presented in motion picture, same title. (*OE 235; 51 frames*)
..... 41

Hobbing a Spur Gear. Part 1: Setting Up the Change Gears
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 1) Reviews material presented in motion picture, same title. (*OE 231; 48 frames*)
..... 41

Hobbing a Spur Gear. Part 2: Setting Up and Hobbing the Work
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 2) Reviews material presented in motion picture, same title. (*OE 232; 49 frames*)
..... 41

Hobbing a Square Tooth Spline Shaft
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 3) Reviews material presented in motion picture, same title. (*OE 233; 45 frames*)
..... 41

Hobbing a Worm Gear: Infeed Method
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Gear Hobbing Machine No. 4) Reviews material presented in motion picture, same title. (*OE 234; 35 frames*)
..... 41

Hog Houses and Equipment
U.S. Department of Agriculture, 1940. A-type and box-type houses, loading chutes, feeders, and other equipment and their construction. Revision. (*30 frames*)
..... 39

Home Grown Plants for Transplanting
U.S. Department of Agriculture, 1945. How to grow own plants for setting out: preparing soil, filling boxes, treating seed, planting, caring for young plants, transferring to flats, cups, and pots, and

setting out. (*37 frames: single; also double*)
..... 39

Home Safety and Health Departments
U.S. Public Health Service, 1949. How health department sanitarians and nurses promote home accident prevention: publicizing accident information; conducting home safety classes and campaigns; and, supporting local safety laws. (*CDC–5–118; 91 frames, synchronized disc, 15 minutes*)
..... 27

Home-Grown Food: Production, Preservation
U.S. Department of Agriculture, 1945. How farm and urban families have increased food production and preservation; scope of national food program as indicated in extension agents' reports to U.S. Department of Agriculture. (*69 frames: single; also double*)
..... 39

Homemaking in Colonial Days
U.S. Department of Agriculture, 1939. Early American home furniture and utensils with views of early interiors and of modern conveniences. (*64 frames*)
..... 39

Hookworm Disease and Hookworm Infection
U.S. Public Health Service, 1948. History, prevention, diagnosis, treatment and control of hookworm disease. Economic loss caused. Life cycle and comparison of Necator americanus and Ancylostoma duodenale. Photographs, drawings and photomicrographs. (*CDC–5–073; 77 frames, color, synchronized disc, 13 minutes*)
..... 27

Horse Bots and How to Fight Them
U.S. Department of Agriculture, 1936. Life cycles of three kinds of bot flies; community action to control bots and protect horses from flies. (*39 frames*)
..... 39

Horseshoeing
U.S. Office of Education, 1944. (Farm Work Series. Livestock No. 2) Reviews material presented in motion picture, same title. (*OE 458; 41 frames*)
..... 41

The Hospital Of Tomorrow
U.S. Public Health Service, 1948. Current inadequate hospital facilities; need for coordinated hospital program on state-wide basis financed by federal, state, and community funds. (*CDC–5–100; 53 frames*)
..... 27

Hospital Zone: Men At Work
U.S. Veterans' Administration, 1946. Physical medicine and rehabilitation in VA hospital at Dallas. For professional personnel and medical students. (*75 frames, synchronized disc, 15 minutes*)
..... 31

The Housefly and Its Control
U.S. Department of Agriculture, 1947. How to reduce number of flies by eliminating breeding places and destroying insects and larvae by modern chemical insecticides. (*34 frames: single; also double*)
..... 39

How To Check and Surface Foundations
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 1) Reviews material presented in motion picture, same title. (*OE 95; 35 frames*)
..... 41

How To Measure Deterioration in Dwellings
U.S. Public Health Service, 1949. How to make objective, consistent reports based on deterioration as seen in 3 major surfaces of a dwelling: the shell; stairs and stair rails; and windows. (*CDC–5–131; 92 frames, synchronized disc, 13 minutes*)
..... 27

How to Remove and Reinstall Radio Equipment LM-RU-GF-DU
U.S. Department of the Navy, 1942. Removal and installation of LM-RU-GF-DU radio equipment. (*SN 656; 46 frames*)
..... 41

How's Your Interviewing Technique
U.S. Bureau of the Census, 1949. How to interview for the Census Bureau: good technique; how to approach the respondent; gain cooperation; handle problem situations. (*51 frames, synchronized microgroove disc, 12 minutes; also script*)
..... 5

The Hydraulic Brake System
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 7) Reviews material presented in motion picture, same title. (*OE 483; 35 frames*)
..... 41

Hydraulic Mechanisms
U.S. Department of the Navy, 1942. Principle of hydraulic system; three types of pumps; and pressure control type of relief valve used in hydraulic systems and their operation. (*SN 111; 50 frames*)
..... 7

Hydraulic Struts
U.S. Department of the Navy, 1943. Need, use and functions of hydraulic struts; operating principles of hydraulic mechanism; construction and operation of hydraulic shock absorber; hydraulic strut; coiled-spring type strut; combination pneumatic and hydraulic strut. (*SN 2792; 37 frames*)
..... 7

Hydrotherapy
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 410; 55 frames*)
..... 41

Identification of Female Anophelines of the United States
U.S. Public Health Service, 1946. (Entomology Series) Distinguishing characters for identifying 13 species of anophelines. Review and test sections. Titles, drawings and maps. (*CDC–5–019; 73 frames, color, synchronized disc, 21 minutes*)
..... 27

Identification of Malaria Parasites in Thick Blood Films
U.S. Public Health Service, 1948. (Malaria Control Series) Differential diagnosis of species and forms of human malaria parasites observed in thick blood preparations from peripheral blood. Photographs and photomicrographs. (*CDC–5–052; 50 frames, color, synchronized disc, 7 minutes*)
..... 27

Identification of Malaria Parasites in Thin Blood Films
U.S. Public Health Service, 1947. (Malaria Control Series) How to classify developmental stages and species of malaria parasites for adequate treatment. Four developmental stages: trophozoites; schizonts; mature schizonts; and gametophytes. Identifying characteristics of vivax, malariae, and falciparum. Photographs, drawings and charts. (*CDC–5–051; 77 frames, color, synchronized disc, 17 minutes*)
..... 27

Identification of Some Common Sucking Lice
U.S. Public Health Service, 1948. (Typhus Control Series) Distinction between Anoplura and Mallophaga, sucking and biting lice; primary morphological characters identifying sucking lice adults and nymphs; and, their life history and medical significance. Drawings. (*CDC–5–097; 60 frames, synchronized disc, 9 minutes*)
..... 27

Identification of South Pacific Plants
U.S. Department of the Navy, 1944. (Castaway Series) How to recognize tropical fruits, plants, and trees; use foliage, fruits or nuts, raw or cooked. (*SN 2306–d; 90 frames, color, synchronized disc, 12 minutes*)
..... 41

Identification of U.S. Genera of Adult Female Mosquitoes
U.S. Public Health Service, 1948. (Entomology Series) Essential morphological characteristics and methods used in identifying the 11 genera of U.S. adult female mosquitoes. Titles and drawings. (*CDC–5–015; 92 frames, color; also b&w, synchronized disc, 15 minutes*)
..... 27

Identification of U.S. Genera of Adult Ticks
U.S. Public Health Service, 1950. (Entomology Series) Introductory taxonomic information: methods of distinguishing ticks from other anthropods and schematic key of distinguishing morphological characters of 11 genera of U.S. adult ticks. (*CDC–5–130; 81 frames, synchronized disc, 14 minutes*)
..... 27

Identification of U.S. Genera of Mosquito Larvae
U.S. Public Health Service, 1947. (Entomology Series) How to recognize mosquito larvae for genera identification by larval habitat, general structure, and stages of growth. Photographs and drawings. (*CDC–5–042; 103 frames, color, synchronized disc, 18 minutes*)
..... 27

Identification of U.S. Species of Anopheles Larvae
U.S. Public Health Service, 1950. (Entomology Series) Taxonomic information; how to distinguish Anopheles larvae from larvae of other mosquitoes and aquatic insects. Schematic key of important characteristics of each species. (*CDC–5–061; 78 frames, synchronized disc, 16 minutes*)
..... 27

Identifying and Precutting Cable
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 3) Reviews material presented in motion picture, same title. (*OE 112; 26 frames*)
..... 41

Identifying Pathogens
U.S. Public Health Service, 1950. (An Introduction to Bacteriology Series No. 2) Title self-explanatory. (*CDC–5–175; 64 frames, color, synchronized disc, 9 minutes*)
..... 27

The Ignition System
U.S. Coast Guard, 1942. (Internal Combustion Engines Series) Construction and operation of coil, condenser, breaker points, distributor, and spark plugs. (*68 frames*)
..... 41

In Hot Water
U.S. Public Health Service, 1945. (Our Health in Your Hands Series) Shows how to wash, handle, and store dishes. Covers both hand dishwashing and the operation of dishwashing machines. For food handlers and sanitarians and general public. (*75 frames, synchronized disc, 15 minutes*)
..... 26, 41

In Self Defense
U.S. Public Health Service, 1946. (Malaria Control Series) Diagnosis of malaria remedial measures; homes of chronic sufferers; self defense measures; and, improved economic conditions resulting from malaria control. Popular treatment. Cartoons. (*CDC–5–016; 68 frames, color, synchronized disc, 14 minutes*)
..... 27

The In Vitro Test for Virulence of C. Diphtheriae
U.S. Public Health Service, 1950. (Laboratory Diagnosis of Diphtheriae Series No. 4) Principles and procedures: how to prepare blood serum, agar base, and In Vitro plate; inoculate plate; and read positive reactions. (*CDC–5–176; 53 frames, color, synchronized disc, 9 minutes*)
..... 27

Income
U.S. Bureau of the Census, 1949. Why the Bureau collects income information; definitions of three kinds of income col-

lected; how to determine what is income. (*62 frames, synchronized microgroove disc, 15 minutes; also script*)
..... 5

Inductance
U.S. Department of the Navy, 1943. (Radio Technician Training Series) Reviews material presented in motion picture, "Inductance, Parts 1 and 2." (*SN 1540–ab; 38 frames*)
..... 41

Induction System Icing
U.S. Department of the Navy, 1942. Conditions under which ice forms; how it forms in carburetor despite high temperatures; three methods to prevent ice forming; how pilot can prevent ice from forming. (*SN 257; 77 frames*)
..... 7

Inductive Reactance
U.S. Department of the Navy, 1942. Basic theory of inductive reactance; its application to radio instruments. (*SN 647; 33 frames*)
..... 41

Infeed Grinding a Shaft of Two Diameters
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 4) Reviews material presented in motion picture, same title. (*OE 88; 39 frames*)
..... 41

Infeed Grinding Shouldered Work
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 3) Reviews material presented in motion picture, same title. (*OE 87; 38 frames*)
..... 41

Injection Molding. Part 1: Setting Up the Press and Molding a Part
U.S. Office of Education, 1945. (Plastics Series No. 7) Reviews material presented in motion picture, same title. (*OE 472; 37 frames*)
..... 41

Injection Molding. Part 2: Cleaning and Servicing the Press
U.S. Office of Education, 1945. (Plastics Series No. 8) Reviews material presented in motion picture, same title. (*OE 473; 34 frames*)
..... 41

The Innerbottom: Setting Up Floors and Longitudinals
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 3) Reviews material presented in motion picture, same title. (*OE 26; 44 frames*)
..... 41

Innerbottom Sections: Subassembly of a Closed Floor; Subassembly of an Open Floor
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 2) Reviews material presented in motion picture, same title. (*OE 25; 42 frames*)
..... 41

Insect Pests of Garden Vegetables and Their Control
U.S. Department of Agriculture, 1938. Life stages of two general types of insects; damage caused; control measures: crop refuse clean up, spray, and dust. (*63 frames*)
..... 39

Insect Pests of Vegetables
U.S. Department of Agriculture, 1949. Common insect pests of vegetables; symptoms and control measures. (*35 frames: double, color*)
..... 42

Insects, Their Growth and Structure
U.S. Department of Agriculture, 1936. Types and kinds of insects, their external and internal anatomy, and life cycles in drawings. (*44 frames*)
..... 39

Inspecting and Adjusting Hydraulic Brakes
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Re-

views material presented in motion picture, same title. (*OE 255; 45 frames*)
..... 41

Inspecting and Reconditioning Piston Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 263; 44 frames*)
..... 41

Inspecting and Reconditioning Valve Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 264; 54 frames*)
..... 41

Inspecting the External Fuel System. Part 1
U.S. Department of the Navy, 1942. How to clean and inspect entire external fuel system of airplane. (*SN 187–a; 51 frames*)
..... 41

Inspection of Minor Assemblies
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 2) Reviews material presented in motion picture, same title. (*OE 146; 36 frames*)
..... 41

Inspection of Plumbing and Piping
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 3) Reviews material presented in motion picture, same title. (*OE 147; 40 frames*)
..... 41

Inspection of Sheet Metal Parts
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 1) Reviews material presented in motion picture, same title. (*OE 145; 42 frames*)
..... 41

Inspection of Threads
U.S. Office of Education, 1944. (Aircraft Work Series. Inspection No. 4) Reviews material presented in motion picture, same title. (*OE 148; 49 frames*)
..... 41

Installing and Aligning Tail Surfaces
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 259; 43 frames*)
..... 41

Installing and Connecting Telltale Panel
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 7) Reviews material presented in motion picture, same title. (*OE 116; 34 frames*)
..... 41

Installing Conduit
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 381; 48 frames*)
..... 41

Installing Landing Gear
U.S. Office of Education, 1944. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 257; 43 frames*)
..... 41

Installing Surface Metal Raceway
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 380; 29 frames*)
..... 41

Installing Valves and Strainer on Sea Chest
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 5) Reviews material presented in motion picture, same title. (*OE 99; 29 frames*)
..... 41

Installing Valves in Engine Room Systems. Part 1
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Pipefitting No. 8) Reviews material presented in motion picture, same title. (*OE 123; 37 frames*)
..... 41

Installing Valves in Engine Room Systems. Part 2
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Pipefitting No. 9) Reviews material presented in motion picture, same title. (*OE 124; 46 frames*)
..... 41

Installing Vitreous Fixtures
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 6) Reviews material presented in motion picture, same title. (*OE 121; 54 frames*)
..... 41

Instrument Flight Rules
U.S. Department of the Navy, 1944. Civil Air regulations as applied to instrument flights. Revision. (*SN 1059–a; 58 frames, synchronized disc, 14 minutes*)
..... 41

Instrument Flight Rules
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) Civil Air regulations as applied to instrument flights. Revision, same title, also available. (*SN 1059–o; 58 frames, synchronized disc, [20?] minutes*)
..... 41

Instrument Flight Rules
U.S. Department of the Navy, 1944. Civil Air Regulations as applied to instrument flights. Revision. (*SN 1059–ad; 58 frames, synchronized disc, 14 minutes*)
..... 41

Instruments Used in Piloting
U.S. Coast Guard, 1944. (Piloting Series) How to use instruments necessary to pilot a vessel. (*37 frames*)
..... 41

Insulin and Its Use
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 3) Insulin facts for diabetics: source and nature of insulin; value of injections; varieties and strengths of bottle insulin; methods of dosage; and necessary care and handling of equipment for injections. Primarily for diabetics. (*CDC–5–143; 69 frames, color, synchronized disc, 13 minutes*)
..... 27

Insulin Reaction
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 5) To teach patient recognition of the symptoms and causes of insulin reaction and discuss its prevention, serious effects and effective emergency treatment. Primarily for diabetics. (*CDC–5–145; 39 frames, color, synchronized disc, 6 minutes*)
..... 27

Intake and Exhaust Systems
U.S. Department of the Air Force, 1942. Essential elements of intake and exhaust systems for radial and V-type aircraft engines. Simplified explanation of the supercharger. (*FS 1–64; 36 frames*)
..... 7, 41

Interpretation of a Single "Lop"
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series) Meaning of "lop"; how it may be found; when it may be used as a speed line or course line. (*FS 1–322; 23 frames*)
..... 7

Interpreting the Altimeter Indications (AN/ARN–1)
U.S. Department of the Navy, 1944. (Radio Altimeter Operation Series) How to determine if radio altimeter is functioning; interpret indications in level flight, glide, bank and at altitudes above 400 ft. (*SN 2745–b; 44 frames*)
..... 7

Introduction and Aids to Radio Navigation
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series. Radio Navigation No. 1) How the radio compass, loop antenna, radio range station and broadcasting station are utilized in aerial navigation. (*FS 1–269; 59 frames*)
..... 7

Introduction to Airplane Instruments
U.S. Department of the Air Force, 1942. (Instruments Series) Principles of instrument operation; electrical and mechanical types. (*FS 1–23; 61 frames*)
..... **7, 41**

Introduction to Compressed Gases
U.S. Department of the Navy, 1946. (Navy Industrial Gases Series) How to identify a cylinder; some of the more important gases. (*SN 6121–a; 127 frames, color, synchronized disc, 18 minutes*)
..... **41**

Introduction to Numbers
U.S. Department of the Army, 1943. Title self-explanatory. (*FS 12–6; ?? frames*)
..... **41**

Introduction to Preventive Maintenance
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 1) Reviews material presented in motion picture, same title. (*OE 461; 33 frames*)
..... **41**

Introduction to Valves
U.S. Department of the Navy, 1944. (Hydraulic Valves Series) History, evolution and purposes of hydraulic valves; simple and compound type. (*SN 1809–a; 77 frames, synchronized disc, 13 minutes*)
..... **7**

An Introduction to Vectors: Coplanar Concurrent Forces
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Reviews material presented in motion picture, same title. (*OE 361; 36 frames*)
..... **41**

Irrigation: Lifeblood of the West
U.S. Department of Agriculture, 1947. History and development of agriculture in West; how arid and semiarid land became prosperous and productive farms. (*56 frames: single; also double*)
..... **39**

Is Farming for Me?
U.S. Department of Agriculture, 1945. To help prospective farmers decide whether to farm or not; sources of practical information on subject. (*54 frames*)
..... **39**

Isolation and Preliminary Identification of Cultures
U.S. Public Health Service, 1951. (Isolation and Identification of Salmonella and Shigella Cultures Series No. 1) Title self-explanatory. (*CDC–5–169; 85 frames, color, synchronized disc, 14 minutes*)
..... **27**

The Jap: His Home Field
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area) Size, weather, topography, rural and city life, industry and natives of Japan. (*SN 1538–h; 69 frames, color, synchronized disc, 13 minutes*)
..... **41**

The Jap: His Honorable Self
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area) Traditions, customs, civic duties, school, army, physical training, character, and psychology of a Japanese boy, Taru. (*SN 1538–i; 69 frames, color, synchronized disc, 13 minutes*)
..... **41**

Java
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area. Netherlands East Indies) Javanese living conditions, temperament, superstitions, clothing; size and population of several large cities; effects of Dutch colonization and dealings with Malays. (*SN 1538–n; 90 frames, color, synchronized disc, 15 minutes*)
..... **41**

Job Analysis
U.S. Department of the Army, 1946. (Examining Personnel for Civilian Employment Series No. 1) Selection and employment methods used by examining panels of local Army installations. (*SFS*

61–4; 51 frames, synchronized disc, 20 minutes)
..... 41

The Job Breakdown
U.S. Department of the Army, 1944. (On-the-Job-Supervision Series No. 3) How to make a job breakdown noting and analyzing every action from beginning to completion. (*SFS 80–4; ?? frames, synchronized disc, 15 minutes*)
..... 41

Joining Solid Conductors
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 369; 39 frames*)
..... 41

Jointing an Edge for Gluing: Installing Knives
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 4) Reviews material presented in motion picture, same title. (*OE 305; 54 frames*)
..... 41

Jointing Edges and Ends 90 Degrees to Face
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Jointer No. 1) Reviews material presented in motion picture, same title. (*OE 302; 62 frames*)
..... 41

Judging Draft Horses
U.S. Department of Agriculture, 1938. Main points to observe in judging various breeds of draft horses. Revision. (*59 frames*)
..... 39

Keeping Your Car Fit
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 3) Reviews material presented in motion picture, same title. (*OE 488; 33 frames*)
..... 41

Kinda Give It Your Personal Attention
U.S. Department of the Army, 1944. (On-the-Job-Supervision Series) Power of suggestion and value of personal attention to improvements on the job; how new modern methods increase production and efficiency. (*SFS 80–7; ?? frames, synchronized disc, 15 minutes*)
..... 41

Know Your Car
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 1) Reviews material presented in motion picture, same title. (*OE 486; 38 frames*)
..... 41

Know Your Land
U.S. Department of Agriculture, 1949. How a practical land classification indicates the best land use and treatment for various areas of the farm. (*45 frames: double, color*)
..... 42

Labor Efficiency on the Farm
U.S. Department of Agriculture, 1943. How to utilize effectively the worktime of hired helpers and self on farm; work planning to save time and motion of men and equipment. (*48 frames: single; also double*)
..... 39

Laboratory Diagnosis of Rabies
U.S. Public Health Service, 1948. Reviews material presented in motion picture, same title. (*CDC–5–105; 53 frames, synchronized disc, 8 minutes*)
..... 27

The Laboratory Diagnosis of Schistosomiasis
U.S. Public Health Service, 1946. (Schistosomiasis Series) How early diagnosis prevents complications. Techniques for recovery of ova: acid-ether concentration and concentration by sedimentation. Need for repeated examinations and danger of transmission to U.S. Photographs and drawings. (*CDC–5–041; 67 frames, color, synchronized disc, 16 minutes*)
..... 27

Laboratory Diagnosis of Tinea Capitis In Children: Microsporum Infections
U.S. Public Health Service, 1950. (Mycology Series) Identifying characteristics of 3 species of fungi, Microsporum audouini, M. canis, and M. gypseum, causing Tinea capitis in U.S. children as revealed by microscopic and cultural study. (*CDC–5–127; 65 frames, color, synchronized disc, 9 minutes*)
..... 27

The Laboratory Diagnosis of Tuberculosis. Part 1: Preparation of a Culture Medium
U.S. Public Health Service, 1949. (The Laboratory Diagnosis of Tuberculosis Series) Reviews material presented in motion picture, same title. (*CDC–5–123.1; 58 frames, color, synchronized disc, 5 minutes*)
..... 27

The Laboratory Diagnosis of Tuberculosis. Part 2: Preparation of Sputum Specimens
U.S. Public Health Service, 1949. (The Laboratory Diagnosis of Tuberculosis Series) Reviews material presented in motion picture, same title. (*CDC–5–123.2; 67 frames, color, synchronized disc, 6 minutes*)
..... 27

The Laboratory Diagnosis of Tuberculosis. Part 4: Typing of Tubercle Bacilli By Animal Inoculation
U.S. Public Health Service, 1950. (The Laboratory Diagnosis of Tuberculosis Series) Reviews material presented in motion picture, same title. (*CDC–5–123.4; 58 frames, color, synchronized disc, 7 minutes*)
..... 27

Land Use In 1949
U.S. Bureau of the Census, 1949. Census definitions of cropland, pasture, wasteland, etc. (*52 frames, synchronized microgroove disc, 13 minutes; also script*)
..... 5

Larger Barley Profits Through Scab and Blight Control
U.S. Department of Agriculture, 1935. Importance of barley crop; blight diseases; their effect; life story of causative fungi; effects on livestock of eating blighted grain; and control practices. (*48 frames*)
..... 39

The Lathe
U.S. Department of the Air Force, 1942. (Machine Tools Series) Parts, function, and operation; holding work in lathe; selection and use of cutting tools; selection of tool angle, feed, and speed; cutting tapers; thread-cutting operations; precautions; use of measuring instruments. (*FS 1–4; 91 frames*)
..... 41

The Lathe
U.S. Office of Education, 1944. (Machine Shop Work Series. Basic Machines) Reviews material presented in motion picture, same title. (*OE 68; 49 frames*)
..... 41

Laying Out and Forming Plywood
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 3) Reviews material presented in motion picture, same title. (*OE 285; 39 frames*)
..... 41

Laying Out and Installing Compartment Fixtures
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 5) Reviews material presented in motion picture, same title. (*OE 114; 34 frames*)
..... 41

Laying Out and Installing Hangers
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 5) Reviews material presented in motion picture, same ttile. (*OE 120; 48 frames*)
..... 41

Laying Out and Installing Kickpipes and Stuffing Tubes
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity

No. 1) Reviews material presented in motion picture, same title. (*OE 110; 57 frames*)
..... 41

Laying Out and Installing Main Wireway
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 2) Reviews material presented in motion picture, same title. (*OE 111; 26 frames*)
..... 41

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 1: Running a Temporary Line
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 6) Reviews material presented in motion picture, same title. (*OE 100; 32 frames*)
..... 41

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 2: Laying Off Bulkheads
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 7) Reviews material presented in motion picture, same title. (*OE 101; 25 frames*)
..... 41

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 3: Running a Permanent Line and Boring
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 8) Reviews material presented in motion picture, same title. (*OE 341; 58 frames*)
..... 41

Laying Out and Installing Stern Tube, Tail Shaft, and Propeller. Part 4: Fitting Tube, Shaft, and Propeller
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 9) Reviews material presented in motion picture, same title. (*OE 342; 58 frames*)
..... 41

Laying Out, Drilling, and Tapping Flanges on Sea Chest
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Marine Machinery Installation No. 4) Reviews material presented in motion picture, same title. (*OE 98; 28 frames*)
..... 41

Laying Out Small Castings
U.S. Office of Education, 1944. (Machine Shop Work Series. Bench Work No. 6) Reviews material presented in motion picture, same title. (*OE 40; 32 frames*)
..... 41

The Lead Line, Fathometer
U.S. Coast Guard, 1942. Importance of taking soundings; how to use identifying marks on a lead line, how to heave and report soundings to bridge; how to check lead line for accuracy regularly and determine type of bottom. (*57 frames*)
..... 41

Learning About Farm Jobs from Pictures
U.S. Department of Agriculture, 1944. How to use pictures with job instruction: concentrate on few main points, fit pictures to needs, emphasize key points, discuss principal steps, show whole process, contrast right and wrong, and compare different methods. (*50 frames: single; also double*)
..... 39

Lesser Sunda Islands
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area. Netherlands East Indies) Size, climate, and living conditions of natives of Timor, Flores, Soemba, Soembawa, Lombok, and Bali; how to obtain their aid. (*SN 1538–m; 92 frames, color, synchronized disc, 15 minutes*)
..... 41

The Life Cycle of a Malaria Parasite
U.S. Public Health Service, 1948. (Malaria Control Series) Morphological changes and development in life cycle of man's malaria parasites and relation between developmental stages of parasite

and clinical symptoms. Drawings. (*CDC–5–030; 93 frames, color, synchronized disc, 13 minutes*)
..... 27

Lift and Drag
U.S. Department of the Navy, 1942. Explains the aerodynamic theories of lift and drag. (*SN 805; 77 frames*)
..... 7

Lifting Templates for a Foundation
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. The Shipfitter) Reviews material presented in motion picture, same title. (*SN 2338–m; 40 frames*)
..... 41

The Liver. Part 1: Normal Histology of the Human Liver. Chapter 1: The Hepatic Parenchyma and the Biliary Passages
U.S. Public Health Service, 1949. (The Organs in Health and Disease Series) Basic structure of the liver; duct system shown by cholangiography. Drawings. For students of medical and veterinary schools, physiologists, anatomists, pathologists and physicians. (*CDC–5–106.2; 60 frames, color, synchronized disc, 9 minutes*)
..... 27

The Liver. Part 1: Normal Histology of the Human Liver. Chapter 2: Vascularization of the Liver
U.S. Public Health Service, 1949. (The Organs in Health and Disease Series) Arrangement, distribution and activity of blood and lymph vessels in liver; dynamics of sinusoidal circulation. Drawings. (*CDC–5–106.3; 65 frames, color, synchronized disc, 9 minutes*)
..... 27

The Liver. Part 1: Normal Histology of the Human Liver. Chapter 3: Interrelationships of Vessels and Ducts
U.S. Public Health Service, 1949. (The Organs in Health and Disease Series) Diagrammatic presentation of inter-lobular, intra-lobular, centra-lobular, and sub-lobular channels; spatial arrangement of vessels and ducts in relation to an individual lobule; medium sized and larger channels. Primarily for medical students and professional personnel. (*CDC–5–106.4; 39 frames, color, synchronized disc, 6 minutes*)
..... 27

The Liver. Part 1: Normal Histology of the Human Liver, Composite
U.S. Public Health Service, 1949. (The Organs in Health and Disease Series) Structure, architecture, and vascularization of the liver; histology and histopathology in terms of three dimensions. Primarily to aid students in understanding the development of portal cirrhosis. Drawings, photographs. (*CDC–5–106.1; 121 frames, color, synchronized disc, 15 minutes*)
..... 27

Locating and Repairing Leaks
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 3) Reviews material presented in motion picture, same title. (*OE 440; 38 frames*)
..... 41

Locating Holes, Drilling and Tapping in Cast Iron
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Drill Press. Vertical Drill No. 1) Reviews material presented in motion picture, same title. (*OE 47; 41 frames*)
..... 41

Location of Decks and Compartments
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Nomenclature of Ships) Reviews material presented in motion picture, same title. (*SN 2334–n; 95 frames*)
..... 41

The Log
U.S. Coast Guard, 1944. (Piloting Series) Describes 3 types of logs: Taffrail, Kenyon, and Pitometer. (*35 frames*)
..... 41

Low Clouds
U.S. Department of the Air Force [1943?]. (Classification and Recognition

of Clouds Series No. 3) Types, identifying characteristics and symbols of low clouds; 17 samples of typical clouds for the viewer to identify. (*FS 1–913; 26 frames, color*)
..... 7

Low Frequency Adcock Radio Range Equipment and Field Patterns
U.S. Department of the Air Force, 1943. Components of low frequency Adcock radio range equipment and theoretical field patterns produced by this equipment. (*FS 1–528; 32 frames*)
..... 7

The Lung. Part 1: Comparative Anatomy and Normal Histology
U.S. Public Health Service, 1948. (Organs in Health and Disease Series) Invertebrate and vertebrate respiratory systems, their evolution and comparative efficiency, and the anatomy and histology of the human lung. (*CDC–5–035; 106 frames, color, synchronized disc, 15 minutes*)
..... 27

Machining a Cast Iron Rectangular Block
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Shaper No. 2) Reviews material presented in motion picture, same title. (*OE 20; 52 frames*)
..... 41

Machining a Tool Steel V Block
U.S. Office of Education, 1942. (Machine Shop Work Series. Operation on the Shaper No. 3) Reviews material presented in motion picture, same title. (*OE 21; 33 frames*)
..... 41

Machining Laminated Plastics
U.S. Office of Education, 1945. (Plastics Series No. 10) Reviews material presented in motion picture, same title. (*OE 475; 39 frames*)
..... 41

Machining Work Held in Chuck: Use of Reference Surfaces
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 12) Reviews material presented in motion picture. (*OE 60; 41 frames*)
..... 41

The Magnetic Compass
U.S. Coast Guard, 1944. (Piloting Series) Construction and operation of magnetic compass; disassembly of cross section. (*39 frames*)
..... 41

Magnetic Instruments
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Operation of magnetic compass; easterly, westerly variation; objects affecting; purpose of weight mass; compensating diaphragm; compass compensator; compensating magnets. (*SN 1059–c; 55 frames, synchronized disc, 23 minutes*)
..... 41

Maintenance of Storage Batteries
U.S. Department of the Navy, 1942. How to install, inspect, service and recharge a storage battery. (*SN 931; 52 frames*)
..... 41

Make Your Chalk Talk
U.S. Department of the Navy, 1942. How to prepare and use blackboard and chalk in instruction; use of compass and straight edge. (*SN 101; 56 frames, synchronized disc, 30 minutes*)
..... 41

Making a Cold Bend on a Hand Powered Machine
U.S. Office of Education, 1944. (Shipbuilding skills series. Pipefitting No. 4) Reviews material presented in motion picture, same title. (*OE 108; 49 frames*)
..... 41

Making a Core Box for a Flanged Pipe Elbow
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 10) Reviews material presented in motion picture, same title. (*OE 330; 40 frames*)
..... 41

Making a Core Box for a Machine Base
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 334; 26 frames*)
..... 41

Making a Core Box for a Tail Print
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 4A) Reviews material presented in motion picture, same title. (*OE 350; 34 frames*)
..... 41

Making a Core Box for a Vertical Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 9) Reviews material presented in motion picture, same title. (*OE 329; 32 frames*)
..... 41

Making a Five Tuck Splice
U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 2) Reviews material presented in motion picture, same title. (*OE 143; 58 frames*)
..... 41

Making a Hot Bend
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) Reviews material presented in motion picture, same title. (*SN 2337–o; 42 frames*)
..... 41

Making a Master Contour Template
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 1) Reviews material presented in motion picture, same title. (*OE 125; 34 frames*)
..... 41

Making a Master Developed Layout. Part 1
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 2) Reviews material presented in motion picture, same title. (*OE 126; 36 frames*)
..... 41

Making a Master Developed Layout. Part 2; and Making the Form Block
U.S. Office of Education, 1944. (Aircraft Work Series. Templates No. 3) Reviews material presented in motion picture, same title. (*OE 127; 50 frames*)
..... 41

Making a Matchboard Pattern
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 8) Reviews material presented in motion picture, same title. (*OE 328; 41 frames*)
..... 41

Making a One-Piece Flat Pattern
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 1) Reviews material presented in motion picture, same title. (*OE 321; 37 frames*)
..... 41

Making a Pattern for a Flanged Pipe Elbow
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 7) Reviews material presented in motion picture, same title. (*OE 327; 41 frames*)
..... 41

Making a Pattern for a Machine Molded Steel Globe and Angle Valve
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 340; 36 frames*)
..... 41

Making a Pattern for a Three-Part Mold
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 6) Reviews material presented in motion picture, same title. (*OE 326; 40 frames*)
..... 41

Making a Pattern Requiring a Cover Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems

in Patternmaking) Reviews material presented in motion picture, same title. (*OE 332; 35 frames*)
..... 41

Making a Pattern Requiring Box Construction
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 333; 31 frames*)
..... 41

Making a Pattern Requiring Segmental Construction
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 335; 30 frames*)
..... 41

Making a Pattern Using a Green and a Dry Sand Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 331; 31 frames*)
..... 41

Making a Pattern with a Horizontal Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 3) Reviews material presented in motion picture, same title. (*OE 323; 41 frames*)
..... 41

Making a Pattern with a Tail Print
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 4) Reviews material presented in motion picture, same title. (*OE 324; 31 frames*)
..... 41

Making a Pattern with a Vertical Core
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 2) Reviews material presented in motion picture, same title. (*OE 322; 45 frames*)
..... 41

Making a Segmented Pattern
U.S. Office of Education, 1945. (Precision Wood Machining Series. Fundamentals of Patternmaking No. 5) Reviews material presented in motion picture, same title. (*OE 325; 52 frames*)
..... 41

Making a Simple Core
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 2) Reviews material presented in motion picture, same title. (*OE 424; 31 frames*)
..... 41

Making a Wire Template
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Pipefitting) Presents in detail operations involved in making a wire template for pipe from blueprint or from measurements aboard ship. Reviews material presented in motion picture. (*SN 2337–n; 23 frames*)
..... 41

Making a Wrapped and Soldered Splice
U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 1) Reviews material presented in motion picture, same title. (*OE 144; 35 frames*)
..... 41

Making and Repairing Tubing Connections
U.S. Office of Education, 1944. (Refrigeration Service Series. Commercial Systems No. 5) Reviews material presented in motion picture, same title. (*OE 452; 40 frames*)
..... 41

Making Insert Patches
U.S. Department of the Navy, 1943. (Fabric Repairs Series) Title self-explanatory. (*SN 1994–c; 11 frames*)
..... 41

Making Pattern, Core Boxes and Assembling Cores for a Water-Cooled Motor Block
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 339; 32 frames*)
..... 41

Making Sheet Metal Repairs
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 252; 34 frames*)
..... 41

Making Useful Articles from Coconut Material
U.S. Department of the Navy, 1944. (Castaway Series) How to use coconut tree in many ways such as making shelters from fonds. (*SN 2306–c; 88 frames, synchronized disc, [10?] minutes*)
..... 41

Malaria
U.S. Public Health Service, 1945. Reviews material presented in motion picture, same title. Photographs and photomicrographs. (*CDC–5–046; 101 frames, synchronized disc, 13 minutes*)
..... 27

Malaria: How To Stop It
U.S. Public Health Service, 1947. (Malaria Control Series) How to combat malaria: keep out mosquitoes; fight mosquitoes that enter; and, eliminate mosquito breeding places by drainage and larviciding. Titles and drawings. (*CDC–5–088; 27 frames*)
..... 27

Man Overboard Emergency Drill. Parts 1, 2, and 3
U.S. Department of the Navy, 1942. Part 1: How to rescue man overboard: launching boat, signaling, securing boat after rescue. Part 2: Procedures of Part 1 repeated in detail. Part 3: Scenes, questions and answers. (*SN 370; 20 frames, synchronized disc, 20 minutes*)
..... 41

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Manual Cutting a Bevel: Freehand
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 2) Reviews material presented in motion picture, same title. (*OE 187; 45 frames*)
..... 41

Manual Cutting a Shape: Freehand Guided
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 3) Reviews material presented in motion picture, same title. (*OE 188; 45 frames*)
..... 41

Manual Cutting to a Line: Freehand
U.S. Office of Education, 1944. (Welding Procedures Series. Oxygen Cutting No. 1) Reviews material presented in motion picture, same title. (*OE 186; 50 frames*)
..... 41

Marine Installation
U.S. Coast Guard, 1943. (Ship's Engines Series) How reciprocating steam engine operates; construction and operation of multiple-expansion engines and double-acting reciprocating pumps. (*63 frames*)
..... 41

Marketing Feeds Through Dairy Cows
U.S. Department of Agriculture, 1935. Types of cows and how to determine their value and kinds and value of feeds. (*31 frames*)
..... 39

The Marketing of Eggs in the United States
U.S. Department of Agriculture, 1938. How eggs are weighed, graded, packed, stored, and shipped by express, truck, and freight; four principal grades of U.S. eggs. Revision. (*53 frames*)
..... 39

Marshall, Gilbert, and Ellice Islands
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area) History, wind and ocean currents, food,

Polynesian and Melanesian inhabitants of island groups. (*SN 1538–d; 67 frames, color, synchronized disc, 13 minutes*)
..... **41**

Measurement With Light Waves
U.S. Office of Education, 1944. (Engineering Series. Materials Testing No. 2) Reviews material presented in motion picture, same title. (*OE 174; 50 frames*)
..... **41**

Measuring and Leveling
U.S. Department of the Army, 1945. (Surveying Series No. 1) Title self-explanatory. (*FS 5–76; ?? frames*)
..... **41**

Measuring Electrical Units. Part 1
U.S. Department of the Navy, 1942. Use and care of instruments for resistance, voltage, and current. (*SN 645–a; 54 frames*)
..... **41**

Measuring Electrical Units. Part 2
U.S. Department of the Navy, 1942. Use and care of instruments for measuring capacity (condensers) and alternating current. (*SN 645–b; 38 frames*)
..... **41**

Measuring Home Management
U.S. Department of Agriculture, 1950. Importance of proper home management; how through research a standard has been established for measuring the managerial ability of a homemaker. (*50 frames: double, color*)
..... **42**

Measuring Pipe, Tubing, and Fittings
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 1) Reviews material presented in motion picture, same title. (*OE 105; 48 frames*)
..... **41**

Mechanical Refrigeration: Control Mechanisms, Freon Systems
U.S. Department of the Navy, 1944. How control mechanisms function conjunctly in system: thermal expansion valve, solenoid stop valves, relief valve, water-pressure failure switch, etc. (*SN 2246–b; 80 frames*)
..... **41**

Mechanical Refrigeration: Operating Practices, Freon Systems
U.S. Department of the Navy, 1944. How to start and stop compressor; pump down system; defrost; add and remove oil in compressor; charge and remove freon; operating principles; precautions. (*SN 2246–c; 148 frames, synchronized disc, 26 minutes*)
..... **41**

Mechanical Refrigeration: Trouble Shooting, Freon Systems
U.S. Department of the Navy, 1944. Trouble shooting technique; how to locate leaks; correct deficiencies in compressor; repair and recharge system; detect short cycling and liquid leakage. (*SN 2246–d; 91 frames, synchronized disc, 18 minutes*)
..... **41**

Medical Certification of the Causes of Death
U.S. Public Health Service, 1950. Proper certification of cause of death and uses of medical certification on death certificates. (*60 frames, synchronized disc, 20 minutes*)
..... **26**

Melanesia
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area) Terrain and natives of New Caledonia, New Hebrides, Solomon Islands, Bismark Archipelago; their strategic importance; war in South Pacific. (*SN 1538–a; 81 frames, color, synchronized disc, 19 minutes*)
..... **41**

Mess Improvement. Part 1: Promoting Good Food Habits
U.S. Department of the Army, 1943. Procedures of food planning, storage, preparation, cooking, and serving to protect essential nutrients and encourage adequate consumption. (*SFS 8–52; ??*

frames, color, synchronized disc, 15 minutes)
..... 41

Mess Improvement. Part 2: Food for Health
U.S. Department of the Army, 1943. Food supplied, waste, basic food essentials, and relationship between important viitamin deficiencies and major sources of vitamins in soldier's diet. (*SFS 8–53; ?? frames, color, synchronized disc, 15 minutes*)
..... 41

The Metalsmith's Tool Kit
U.S. Department of the Navy, 1942. Various kinds of aviation metalsmith tools. Straight photography, cartoons. (*SN 926; 57 frames*)
..... 41

Methods of Operating Valves
U.S. Department of the Navy, 1945. (Hydraulic Valves Series) Manual, mechanical, electrical, and hydraulic valves and combinations. Schematics and straight photography. (*SN 1809–e; 50 frames, synchronized disc, 9 minutes*)
..... 7

Methods of Processing Plastics Materials
U.S. Office of Education, 1945. (Plastics Series No. 2) Reviews material presented in motion picture, same title. (*OE 467; 68 frames*)
..... 41

Methods of Starting the Engine
U.S. Department of the Navy, 1942. How an engine may be started by pulling the propeller; with a shock cord; direct hand crank; combustion starter; inertia starter (hand and electric operated); and direct electric starter. (*SN 123; 45 frames*)
..... 7

The Micrometer
U.S. Office of Education, 1943. (Machine Shop Work Series. Precision Measurement No. 2) Reviews material presented in motion picture, same title. (*OE 2; 38 frames*)
..... 41

Middle Clouds
U.S. Department of the Air Force [1943?]. (Classification and Recognition of Clouds Series No. 2) Types, identifying characteristics and symbols of the middle clouds; 12 samples of typical clouds for the viewer to identify. (*FS 1–912; 26 frames, color*)
..... 7

Milling a Circular T-Slot
U.S. Office of Education, 1943. (Machine Shop Work. Operations on the Vertical Milling Machine No. 5) Reviews material presented in motion picture, same title. (*OE 76; 27 frames*)
..... 41

Milling a Foundation
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Outside Machinist) Reviews material presented in motion picture, same title. (*SN 2348–o; 62 frames*)
..... 41

Milling a Helical Cutter
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Milling Machine No. 8) Reviews material presented in motion picture, same title. (*OE 210; 54 frames*)
..... 41

Milling a Helical Groove
U.S. Office of Education, 1943. (Machine Shop Work. Operations on the Vertical Milling Machine No. 4) Reviews material presented in motion picture, same title. (*OE 75; 35 frames*)
..... 41

Milling a Template
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Milling Machine No. 5) Reviews material presented in motion picture, same title. (*OE 207; 34 frames*)
..... 41

The Milling Machine
U.S. Department of the Air Force, 1942. (Machine Tools Series) Parts, function, and operation; cutting-speed selection; types of cutting tools and their

uses, setting up and operation. (*FS 1–5; 58 frames*)
..... 41

The Milling Machine
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Milling Machine No. A) Reviews material presented in motion picture, same title. (*OE 11; 45 frames*)
..... 41

The Milling Machine
U.S. Office of Education, 1944. (Machine Shop Work Series. Basic Machines) Reviews material presented in motion picture, same title. (*OE 69; 41 frames*)
..... 41

Minor Injuries
U.S. Department of the Navy, 1942. (First Aid Series) How to treat strains, sprains, dislocations, bruises, frostbites, and foreign bodies in eye, ear, nose and throat. Straight photography and drawings. (*SN 219; 65 frames, synchronized disc, 14 minutes*)
..... 41

Mrs. Jones Learns About Non-Fat Dry Milk
U.S. Public Health Service, 1950. How non-fat dry milk is equal to whole milk in nutrient value; its easy handling; uses as a beverage and in cooking and baking. (*48 frames, color*)
..... 26

Mixing of DDT Emulsions
U.S. Public Health Service, 1945. (Malaria Control Series) How to prepare the mixture of DDT, xylene, emulsifier and water for spraying; procedures and equipment used in central mixing plants. Photographs and drawings. (*CDC 5–012; 77 frames, synchronized disc, 12 minutes*)
..... 27

Model Making
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–a; 40 frames, color, synchronized disc, [10?] minutes*)
..... 41

Molding a Horizontal Cored Part
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 4) Reviews material presented in motion picture, same title. (*OE 431; 37 frames*)
..... 41

Molding a Valve Body
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 3) Reviews material presented in motion picture, same title. (*OE 430; 33 frames*)
..... 41

Molding on a Jolt Roll-Over Pattern Draw Machine
U.S. Office of Education, 1945. (Foundry Practice Series. Machine Molding) Reviews material presented in motion picture, same title. (*OE 434; 47 frames*)
..... 41

Molding on a Jolt Squeeze Machine
U.S. Office of Education, 1945. (Foundry Practice Series. Machine Molding) Reviews material presented in motion picture, same title. (*OE 433; 49 frames*)
..... 41

Molding Part Having a Vertical Core
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 3) Reviews material presented in motion picture, same title. (*OE 425; 38 frames*)
..... 41

Molding Part With Deep Green Sand Core
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 2) Reviews material presented in motion picture, same title. (*OE 429; 30 frames*)
..... 41

Molding With a Gated Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 5) Reviews material presented in motion picture, same title. (*OE 427; 30 frames*)
..... 41

Molding with a Loose Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 1)

Reviews material presented in motion picture, same title. (*OE 423; 37 frames*)
..... 41

Molding With a Loose Pattern (Floor)
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 1) Reviews material presented in motion picture, same title. (*OE 428; 35 frames*)
..... 41

Molding With a Split Pattern
U.S. Office of Education, 1944. (Foundry Practice Series. Bench Molding No. 4) Reviews material presented in motion picture, same title. (*OE 426; 26 frames*)
..... 41

Molding With a Three Part Flask
U.S. Office of Education, 1945. (Foundry Practice Series. Floor Molding No. 5) Reviews material presented in motion picture, same title. (*OE 432; 33 frames*)
..... 41

Moluccas
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area. Netherlands East Indies) Terrain, winds and how marooned personnel can, with aid of friendly natives, Malays, Papuans, and Chinese, escape to a friendly base. (*SN 1538–p; 88 frames, color, synchronized disc, 17 minutes*)
..... 41

Mosquito Inspection and Control
U.S. Public Health Service, 1946. (Malaria Control Series) Photographs on mosquito inspection and control: hand and power sprayers, airplane larviciding, eradication of breeding places, adult catching stations, and recording mosquito larvae. To review topics or make 2 x 2 in. slides. (*CDC–5–076; 83 frames, color*)
..... 27

Mounting on Articulators
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–c; 40 frames, color, synchronized disc, 10 minutes*)
..... 41

Moving the Injured. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) How to move injured on various types of stretchers. Straight photography, titles, drawings. (*SN 224–a; 43 frames, synchronized disc, 9 minutes*)
..... 41

Moving the Injured. Part 2
U.S. Department of the Navy, 1942. (First Aid Series) How to improvise stretchers and carry victims without stretchers. Straight photography. (*SN 224–b; 54 frames, synchronized disc, 11 minutes*)
..... 41

Multiple Cylinder Engines
U.S. Coast Guard, 1942. (Internal Combustion Engines Series) Layout of multiple cylinder engines in drawings; principle of staggering firing order. (*40 frames*)
..... 41

Musca Domestica
U.S. Department of the Navy, 1943. (Field Sanitation Series No. 1) How flies spread typhoid, cholera, and dysentery; field sanitary measures; various fly control methods. Cartoon drawings. Special film for medical personnel. (*SN 1934–a; 68 frames, synchronized disc, 7 minutes*)
..... 41

The Nation We Serve
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. (*FS 16–1; 10 frames, color*)
..... 41

The National 4-H Club Camp
U.S. Department of Agriculture, 1947. Highlights of 17th National 4-H Club Camp, in Washington, D.C. (*35 frames: double*)
..... 39

National Poultry Improvement Plan
U.S. Department of Agriculture, 1938. Program to improve breeding and pro-

duction qualities, introduce a uniform terminology, and control pullorum disease; how flocks may meet requirements of three pullorum-control classes and five progressive breeding stages. (*48 frames*)
..... 39

The Nature of Plant Diseases
U.S. Department of Agriculture, 1939. Structure and development of fungi; how fungi cause diseases on various parts of cultivated plants; and control methods. Revision. (*47 frames*)
..... 39

The Need for Wholesome Thinking
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. (*FS 16–2; 10 frames, color*)
..... 41

The New Gardener
U.S. Department of Agriculture, 1943. Beginner's course through main steps in gardening: preparing ground, planting various seeds, how and when to transplant, weed, stake, and harvest. (*49 frames: single; also double*)
..... 39

New Guinea
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area) How to study land for travel; use fruits, foliage, fish, and animals; sleep; use first aid kit; get along with natives. (*SN 1538–e; 78 frames, color, synchronized disc, 12 minutes*)
..... 41

The 1949 National 4-H Club Camp
U.S. Department of Agriculture, 1949. Highlights of program for 4-H Club delegates in Washington, D.C., for 19th club camp. (*60 frames: double, color*)
..... 42

Occupation, Industry, and Class of Worker
U.S. Bureau of the Census, 1949. How to record occupational information; importance of being specific; proper and improper entries. (*59 frames, synchronized microgroove disc, 14 minutes, or script*)
..... 5

Oil Systems
U.S. Department of the Navy, 1943. How oil system works in V- and radial-type engines; wet and dry sump systems; how to trace simple oil-line failures. (*SN 2782; 52 frames*)
..... 7

On the Trail of George Washington
U.S. Department of Agriculture, 1932. Scenes associated with the life of Washington from birth through youth, Mount Vernon days, the war, and early years of country. Prepared for U.S. George Washington Bicentennial Commission. (*75 frames*)
..... 39

100 Years of Fixed Wing Aircraft Development
U.S. Civil Aeronautics Administration, 1948. Scale models of significant aircraft, 1803-1903, including designs by Cayley, Walker, Henson, Stringfellow, Loup, Du Temple, Le Bris, Wenham, Penaud, Lilienthal, Penaud and Gauchot, Chanute, Wright Brothers, Langley, etc. (*46 frames, color*)
..... 7

Operation of the Astro-Compass
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series) How to use the astro-compass to find deviation correction; how to align astro-compass standard. (*FS 1–421; 52 frames*)
..... 7

The Operator and His Job
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 1) Reviews material presented in motion picture, same title. (*OE 491; 31 frames*)
..... 41

The Operator and His Passengers
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 2) Reviews material presented in motion picture, same title. (*OE 492; 41 frames*)
..... 41

The Operator and Safety
U.S. Office of Education, 1945. (Automotive Series. Bus Operation No. 3) Reviews material presented in motion picture, same title. (*OE 493; 71 frames*)
..... 41

Oral Hygiene: Toothbrush Technique
U.S. Public Health Service, 1949. Proper home care of teeth: dental equipment and toothbrush technique. Periodic oral prophylaxis by dentist or dental hygienist and clinical care of tooth decay. Photographs and drawings. (*CDC–5–135; 30 frames, color, synchronized disc, 5 minutes*)
..... 27

Origin and Synthesis of Plastics Materials
U.S. Office of Education, 1945. (Plastics Series No. 1) Reviews material presented in motion picture, same title. (*OE 466; 40 frames*)
..... 41

Other Examining Techniques
U.S. Department of the Army, 1946. (Examining Personnel for Civilian Employment Series No. 4) Procedures of personnel selection. (*SFS 61–7; ?? frames, synchronized disc, 20 minutes*)
..... 41

Out on a Limb
U.S. Veterans' Administration, 1946. How VA Prosthetic Appliances Service features prosthetic appliance card system for quick service in obtaining repairs for artificial limbs and new "free choice" method of obtaining new limbs. (*79 frames, synchronized disc, 18 minutes*)
..... 31

Overhauling Camshaft Assembly and Crankcase Section
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 270; 42 frames*)
..... 41

Overhauling Crankshaft Assembly
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 269; 41 frames*)
..... 41

Overhauling the Carburetor
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 267; 48 frames*)
..... 41

Oxyacetylene Welding Light Metal
U.S. Office of Education, 1944. (Welding Procedures series. Oxyacetylene Welding No. 1) Reviews material presented in motion picture, same title. (*OE 190; 41 frames*)
..... 41

Oxygen Equipment
U.S. Department of the Air Force, 1943. Operation, inspection, maintenance of oxygen equipment: cylinders, valves and tubing, regulators and indicators, masks and mouthpieces, and auxiliary equipment. (*FS 1–235; 80 frames*)
..... 7

Packing and Processing
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–g; 40 frames, color, synchronized disc, 13 minutes*)
..... 41

Parking of Aircraft
U.S. Department of the Air Force [1943?]. Hand signals and procedures for taxiing, parking and dispatching aircraft. Based on AAF Reg. 62–10. (*FS 1–872; 54 frames*)
..... 7

Passengers, Driving Hazards, Safety
U.S. Office of Education, 1945. (Automotive Series. School Bus Operation No. 2) Reviews material presented in motion picture, same title. (*OE 495; 41 frames*)
..... 41

Patching Fabric
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 250; 46 frames*)
..... 41

Patching Plywood
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 249; 48 frames*)
..... 41

Patching Small Holes in Fabric
U.S. Department of the Navy, 1943. (Fabric Repairs Series) Title self-explanatory. (*SN 1994–a; 24 frames*)
..... 41

Patching the LT and X Type Tears in Fabric
U.S. Department of the Navy, 1943. (Fabric Repairs Series) Title self-explanatory. (*SN 1994–b; 13 frames*)
..... 41

The Pea Aphid: Its Importance, Habits, Enemies, and Control
U.S. Department of Agriculture, 1939. Four life stages of pea aphid; damage caused; control by natural enemies, spraying, dusting, and fumigating. (*45 frames*)
..... 39

The Periodic Check-Up
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 4) Reviews material presented in motion picture, same title. (*OE 489; 36 frames*)
..... 41

Periodic Inspection: Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 282; 51 frames*)
..... 41

Periodic Inspection: Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 283; 40 frames*)
..... 41

Permanent Ditch Linings. Part 1
U.S. Public Health Service, 1945. (Malaria Control Series) How monolithic concrete linings in ditches for pond draining prevent ditch erosion requiring minimum maintenance. Photographs, drawings and diagrams. (*CDC–5–034; 107 frames, color, synchronized disc, 15 minutes*)
..... 27

Personal Traits Analysis
U.S. Department of the Army, 1946. (Examining Personnel for Civilian Employment Series No. 2) Sources of information for job analysis and steps in work. (*SFS 61–5; 48 frames, synchronized disc, 20 minutes*)
..... 41

Philippine Islands
U.S. Department of the Navy, 1944. (Theaters of War Series. Pacific Area) Guide for men cut off from bases and alone in Luzon, Viscayan, Mindanao. Weather, terrain, location of cities and islands, edible food, fish, and animals, how to pick sleeping quarters, and protect one's self from pests. (*SN 1538–t; 97 frames, color, synchronized disc, 19 minutes*)
..... 41

Pipe Fabrication with Jigs
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Pipefitting No. 7) Reviews material presented in motion picture, same title. (*OE 122; 48 frames*)
..... 41

Pitch Buttoning and Blocking: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) Reviews material presented in motion picture, same title. (*OE 182; 66 frames*)
..... 41

Plain Indexing and Cutting a Spur Gear
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Milling Machine No. 4) Reviews material presented in motion picture, same title. (*OE 15; 53 frames*)
..... 41

Plane Performance
U.S. Department of the Navy, 1942. Factors which govern plane performance. Straight photography, drawings, and graphs. (*SN 813; 63 frames*)
..... 7

Planers
U.S. Department of the Air Force, 1942. (Machine Tools Series) Function and operation of parts; precautions; holding work; aligning work. (*FS 1–6; 56 frames*)
..... 41

Planing a Dovetail Slide
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Planer No. 2) Reviews material presented in motion picture, same title. (*OE 67; 38 frames*)
..... 41

Planing a Flat Surface
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Planer No. 1) Reviews material presented in motion picture, same title. (*OE 66; 48 frames*)
..... 41

Planing Rough Surfaces to Dimensions
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on a Single Face Surfacer No. 1) Reviews material presented in motion picture, same title. (*OE 301; 46 frames*)
..... 41

Planned Developments
U.S. Civil Aeronautics Administration, 1946. How CAA projects improve communications, air traffic control, and navigational aids. (*58 frames, color, synchronized disc, 15 minutes*)
..... 7, 41

Planning Good Meals
U.S. Public Health Service in cooperation with American Diabetes Association and American Dietetic Association, 1950. (Taking Care of Diabetes Series No. 4) Demonstrates the planning of a wide variety of meals using a diabetic's meal plan and exchange lists and the importance of various foods in maintaining an individual's health. Primarily for diabetics. (*CDC–5–144; 50 frames, color, synchronized disc, 10 minutes*)
..... 27

Planning Our Family Life
U.S. Department of Agriculture, 1944. Importance of family group sharing in planning for farm; home and members; how children learn their relationship; and responsibilities to community and nation. Revision. (*59 frames*)
..... 39

Plunge Cut Grinding
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Center-type Grinder No. 4) Reviews material presented in motion picture, same title. (*OE 83; 27 frames*)
..... 41

Poison
U.S. Department of the Navy, 1942. (First Aid Series) Symptoms and treatment of drug, food and carbon-monoxide poisoning. Straight photography. (*SN 226; 35 frames, synchronized disc, 8 minutes*)
..... 41

Polishing: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) Reviews material presented in motion picture, same title. (*OE 184; 64 frames*)
..... 41

Porcelain Protected Surface Wiring
U.S. Office of Education, 1944. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 376; 45 frames*)
..... 41

Power Bending Conduit
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 382; 25 frames*)
..... 41

Power Plant Controls
U.S. Department of the Navy, 1943. Three types of controls: flexible wire and cable; rigid tubing and wire; pull-push; use of each; how to adjust, inspect, and lubricate; types of control handles. (*SN 2784; 38 frames*)
..... 7

Power Plant Lubrication
U.S. Department of the Navy, 1942. How to use lubricating guns; lubricate engine controls; inspect and lubricate magneto, starter, and generator; precautions. Aircraft machine shop demonstration film. (*SN 164; 45 frames*)
..... 41

Power Spraying With DDT
U.S. Public Health Service, 1945. (Malaria Control Series) How to use DDT residual spray in the home; the power sprayer, its use and maintenance. Photographs and drawings. 2nd ed. (*CDC–5–002.1; 95 frames, synchronized disc, 14 minutes, color*)
..... 27

Precision Gage Blocks
U.S. Office of Education, 1945. (Machine Shop Work Series. Precision Measurement No. 6) Reviews material presented in motion picture, same title. (*OE 49; 28 frames*)
..... 41

Preflight Inspection: Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 280; 46 frames*)
..... 41

Preflight Inspection: Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 281; 47 frames*)
..... 41

Preflight Procedure
U.S. Department of the Navy, 1944. (Instrument Flight Control Series. Airport and Airway Traffic Control Procedure No. 1) Title self-explanatory. Revision, same title, also available. (*SN 1059–p; 52 frames, synchronized disc, [10?] minutes*)
..... 41

Preflight Procedure
U.S. Department of the Navy, 1944. (Instrument Flight Control Series. Airport and Airway Traffic Control Procedure No. 1) Methods used in airport and airway traffic control; preflight action to be taken by pilot prior to making an instrument flight. Revision. (*SN 1059–ae; 52 frames, synchronized disc, 12 minutes*)
..... 7

Preparation for Fabric Covering
U.S. Department of the Navy, 1942. Cross-rib bracing on wing structure; dope-proofing; fabric estimating in aircraft construction. (*SN 183; 40 frames*)
..... 41

The Preparation of Hematoxylin Stained Smears for the Diagnosis of Intestinal Protozoa
U.S. Public Health Service, 1950. How to diagnose intestinal protozoa with fecal smear; how smear gives detailed morphology of organisms and permanent diagnostic record of involved specimen; basic steps of all smears: fixation; staining, and mounting. (*CDC–5–155; 69 frames, synchronized disc, 9 minutes*)
..... 27

Preparing a Cupola for Charging
U.S. Office of Education, 1945. (Foundry Work Series. Melting Practice) Reviews material presented in motion picture, same title. (*OE 436; 48 frames*)
..... 41

Preparing and Setting a Keelblock and Bottom Cradle
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 1) Reviews material presented in motion picture, same title. (*OE 24; 45 frames*)
..... 41

Preparing Blood Films for Microscopical Examination
U.S. Public Health Service, 1947. (Malaria Control Series) How to prepare thick and thin blood slides for laboratory diagnosis of malaria. Techniques used for adults, and small children. How to clean slides. Photographs and titles. (*CDC–5–071; 66 frames, color, synchronized disc, 11 minutes*)
..... **27**

Preparing Old Buildings for Wiring
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 378; 50 frames*)
..... **41**

Preserve the Original Strength
U.S. Department of the Navy, 1942. Explains tension, compression, shear, bending, torsion, monocoque and semi-monocoque fuselages and "stressed" skin type of wing structure. (*SN 294; 57 frames*)
..... **41**

Pressure Gages
U.S. Department of the Air Force, 1942. (Instruments Series) Application of pressure gages on aircraft; Bourdon, diaphragm, aneroid mechanisms. (*FS 1–52; 52 frames*)
..... **41**

Pressure Sealing
U.S. Coast Guard, 1943. (Ships Engines Series) Purpose of pressure sealing; kinds of steam, air, ammonia, and oil packings; packings for fixed joints and movable parts; materials from which made. (*69 frames*)
..... **41**

Prevent Farm Fires
U.S. Department of Agriculture, 1944. How to eliminate fire hazards by fireproof construction, replacements, approved wiring, and careful handling and storing of combustible materials. (*38 frames: single; also double*)
..... **39**

Primary Trainer
U.S. Department of the Air Force [1943?]. (Airplane Cockpit Instruments and Controls Series No. 1) Name, function and location of cockpit instruments in Air Force primary trainer PT-19A. (*FS 1–377; 44 frames*)
..... **7**

Primary Treatment Plants
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Plants Series No. 1) Reviews material presented in motion picture. (*CDC–5–138; 47 frames, synchronized disc, 7 minutes*)
..... **27**

Principal Dimensions, Reference Surfaces and Tolerances
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Bluprint Reading No. 3) Reviews material presented in motion picture, same title. (*OE 53; 25 frames*)
..... **41**

Principle of Moments
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Reviws material presented in motion picture, same title. (*OE 362; 29 frames*)
..... **41**

Principles of Dry Friction
U.S. Office of Education, 1945. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 365; 36 frames*)
..... **41**

Principles of Gas-Filled Tubes
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 4) Reviews material presented in motion picture, same title. (*OE 353; 36 frames*)
..... **41**

Principles of Gearing: An Introduction
U.S. Office of Education, 1945. (Engineering Series. Fundamentals of Mechanics) Reviews material presented in

motion picture, same title. (*OE 363; 37 frames*)
..... 41

Principles of Liquids and Gases
U.S. Department of the Air Force, 1942. Basic physical principles as applied to liquids and gases; their application to the hydraulic system of the airplane. (*FS 1–22; 75 frames*)
..... 41

Principles of Lubrication
U.S. Office of Education, 1945. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 355; 33 frames*)
..... 41

Principles of Operation (AN/ARN-1)
U.S. Department of the Navy, 1944. (Radio Altimeter Operation Series) How radio altimeter overcomes aneroid altimeter shortcomings; characteristics of radio altimeter's scale; how graduated; accuracy of indications at different levels; location and utilization of ARN-1 model units in maintaining fixed altitude flight. (*SN 2745–a; 67 frames*)
..... 7

Principles of Refrigeration
U.S. Office of Education, 1944. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 360; 44 frames*)
..... 41

The Production and Processing of Oysters
U.S. Public Health Service, 1948. (Shellfish Sanitation Series) Reviews material presented in motion picture, same title. (*CDC–5–098; 90 frames, synchronized disc, 9 minutes*)
..... 27

Production of High-Quality Cream for Butter Making
U.S. Department of Agriculture, 1937. How clean practices in milking, clean farm surroundings, prompt cooling, and frequent delivery assure high-quality cream. (*30 frames*)
..... 39

The Production of Maple Syrup
U.S. Department of Agriculture, 1948. Process used and value of maple-syrup production in United States. (*59 frames: single; also double*)
..... 39

Propagation of Trees and Shrubs by Vegetative Means
U.S. Department of Agriculture, 1940. How to use stolons, layers, cuttings, grafts, buds, sprouts, and root stocks to insure true perpetuation. (*47 frames*)
..... 39

Properties of Photographic Lenses
U.S. Department of the Air Force, 1942. Function of lenses; pinhole lenses; focal length of lenses; size of image; necessity for focusing lens; inversion of the image; circle of confusion; types of single lenses; chromatic aberration, achromatic lens, spherical aberration, curvilinear distortion, anastigmat lenses. (*FS 1–47; 65 frames*)
..... 41

Protection Against Flashburns
U.S. Department of the Navy, 1944. Causes of flashburns; protective clothing. (*SN 4420; 109 frames, synchronized disc, 12 minutes*)
..... 41

Protection From X-Rays
U.S. Public Health Service, 194?. Danger of overexposure; amount of radiation at various positions around equipment; correct position of operator and safety checks. For operators, nurses, and assistants. (*59 frames, synchronized disc, 15 minutes*)
..... 26

Protection of Metals. Part 1
U.S. Department of the Navy, 1942. Why and how to apply protective coverings to metals in aircraft construction and maintenance. (*SN 185–a; 53 frames*)
..... 41

Protection of Metals. Part 2
U.S. Department of the Navy, 1942. Why and how to apply protective coverings to metals. (*SN 185–b; 30 frames*)
..... 41

Protection of Photofluorographic Personnel
U.S. Public Health Service, 194?. Hazards of photofluorography; how to determine and avoid excess radiation; proper placement of equipment and operator. For photofluorographic operators, nurses, and assistants. (*50 frames*)
..... 26

Pruning Southern Pines
U.S. Department of Agriculture, 1940. How, why, when, and what kinds of trees to prune; value of pruning in lumber production. (*65 frames*)
..... 39

Pulling and Installing Cable and Packing Terminal Tubes
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 4) Reviews material presented in motion picture, same title. (*OE 113; 34 frames*)
..... 41

Purpose of First Aid
U.S. Department of the Navy, 1942. (First Aid Series) Purpose of first aid and applications. Straight photography, titles and drawings. (*SN 215; 51 frames, synchronized disc, 8 minutes*)
..... 41

PVA Fixative Technique in the Diagnosis of Amoebiasis
U.S. Public Health Service, 1950. How to use PVA fixative: preparation of PVA fixative; preserving specimens; staining smears; and, shipping specimens. (*CDC–5–153; 65 frames, color*)
..... 27

"Q" (Query) Fever
U.S. Public Health Service, 1950. Nature, diagnosis, and control of "Q" fever; animal infection; transmission; description of disease; diagnostic tests; control procedures. For medical and veterinarian personnel. Supplementary slides, same title, also available. (*CDC–5–156; 90 frames, color, synchronized disc, 9 minutes*)
..... 27

Quieting a Noisy Refrigerator
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 10) Reviews material presented in motion picture, same title. (*OE 447; 32 frames*)
..... 41

Quiz: Hand Spraying of DDT
U.S. Public Health Service, 1946. (Malaria Control Series) Thirty-two illustrated questions reviewing material presented in filmstrip, "Hand Spraying of DDT." (*CDC–5–007; 36 frames*)
..... 27

Quiz: Mixing of DDT Emulsions
U.S. Public Health Service, 1945. (Malaria Control Series) Nineteen illustrated questions reviewing material presented in filmstrip, "Mixing of DDT Emulsions." (*CDC–5–009; 23 frames*)
..... 27

Quiz: Power Spraying With DDT
U.S. Public Health Service, 1945. (Malaria Control Series) Twenty-two illustrated questions reviewing material presented in filmstrip, "Power Spraying with DDT." (*CDC–5–008; 26 frames*)
..... 27

Quiz: Safe Practices in Handling DDT
U.S. Public Health Service, 1945. (Malaria Control Series) Eight illustrated questions reviewing material presented in filmstrip, "Safe Practices in Handling DDT." (*CDC–5–010; 13 frames*)
..... 27

Rabbeting and Shaping an Edge on Straight Stock
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 1) Reviews material presented in motion picture, same title. (*OE 318; 50 frames*)
..... 41

Rabbit Raising
U.S. Department of Agriculture, 1949. How to breed and feed the domestic rabbit and market its meat, pelts, and wool. Suitable for small back yard rab-

bitry or full-time operator. (*50 frames: double*)
..... 39

Radio and Control
U.S. Department of the Navy, 1942. How aircraft radio is used in maintaining contact with base stations. (*SN 812; 55 frames*)
..... 7

Radio Bearings
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series. Radio Navigation No. 3) Definition of true, relative and reciprocal bearings; how to take and use radio bearings to obtain a fix; plotting radio bearings on the Mercator and DF chart. (*FS 1–270; 42 frames*)
..... 7

Radio Direction Finder
U.S. Coast Guard, 1943. (Piloting Series) Construction and operation of Radio Direction Finder, models RDSC-121, DAE, and CGR-17. (*56 frames*)
..... 41

Radio Frequency Amplification
U.S. Department of the Navy, 1942. Theory and practice of amplification of the detected radio wave. (*SN 653, 18 frames*)
..... 41

Radio Navigation. Part 1: The Radio Range
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) Directional receiving antenna and loops used in radio navigation. Revision of "Radio Navigation. Part 1: Radio Range Flying," also available. (*SN 1059–x; 64 frames, synchronized disc, 25 minutes*)
..... 41

Radio Navigation. Part 1: Radio Range Flying
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Low frequency radio range characteristics; how its courses are produced; signals heard in each quadrant, along each course; variation in intensity with aircraft direction and position; fan markers used. Revision, "Radio Navigation. Part 1: The Radio Range," also available. (*SN 1059–g; 57 frames, synchronized disc, 25 minutes*)
..... 41

Radio Navigation. Part 2: Bracketing
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) How to bracket a course of a low frequency radio range. (*SN 1059–h; 38 frames, synchronized disc, 20 minutes*)
..... 41

Radio Navigation. Part 3
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Title self-explanatory. (*SN 1059–i; [50?] frames, synchronized disc, [20?] minutes*)
..... 41

Radio Navigation. Part 4: Irregularities in Radio Range Operation
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Causes of irregularities of L.F. radio range operation; instrument approach procedures. (*SN 1059–j; 41 frames, synchronized disc, 20 minutes*)
..... 41

Radio Navigation. Part 5
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) Principles of operation and uses of radio direction finder. (*SN 1059–k; 93 frames, synchronized disc, 25 minutes*)
..... 41

Radio Navigation. Part 6
U.S. Department of the Navy, 1944. (Instrument Flight Control Series) Various systems for taking a fix using radio direction finder: radio station, 45°, doubling the angle off the bow QDM, and box. (*SN 1059–l; 55 frames, synchronized disc, 22 minutes*)
..... 41

Radio Range Course Control Elements
U.S. Department of the Air Force, 1943. Components and construction of inter-

locking, squeezing, rotating and bending elements and how each control low frequency radio range courses. (*FS 1–529; 42 frames*)
..... 7

Radiodontics
U.S. Department of the Navy, 1943. How radiograph is used to locate retained roots, impacted teeth, fractures, cavities, overhanging fillings, abnormal growths, and gum and teeth diseases. Special film for dental personnel. (*SN 2204; 37 frames, synchronized disc, 21 minutes*)
..... 41

Radiotherapy: High Dosage Treatment
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 411; 39 frames*)
..... 41

Radius of Action: Returning to Alternate or Moving Base
U.S. Department of the Air Force, 1942. (Aerial Navigation Series. Dead Reckoning No. 2) How to calculate radius of action thru development of factor diagram; effect of data change. (*FS 1–68; 16 frames*)
..... 7, 41

Radius of Action: Returning to Same Base
U.S. Department of the Air Force, 1942. (Aerial Navigation Series. Dead Reckoning No. 1) How to define and calculate radius of action; determining factors; terminology; and ideal solution. (*FS 1–67; 17 frames*)
..... 7, 41

Raindrops and Erosion
U.S. Department of Agriculture, 1947. How raindrops destroy topsoil, cause flood run-off, and accelerate harmful silt accumulation in streams and reservoirs; based on experiments conducted by W. D. Ellison of U.S. Soil Conservation Service. (*50 frames: single; also double*)
..... 39

Rat Eradication Measures on Ratproofing Projects
U.S. Public Health Service, 1947. Ratproofing and eradication project techniques: survey for rat infestation; poisoning with 1080 water and baits; trapping; checks; and, re-inspection. Photographs and charts. (*CDC–5–068; 78 frames, synchronized disc, 12 minutes*)
..... 27

Ratproofing of Existing Buildings
U.S. Public Health Service, 1947. (Typhus Control Series) Habitat of rats, diseases carried, and types and extent of economic loss caused. Surveying need for ratproofing, preventive measures and periodic inspection to insure effectiveness. Photographs, drawing and forms. (*CDC–5–067; 80 frames, synchronized disc, 14 minutes*)
..... 27

RCL: Resistance, Capacitance, Inductance
U.S. Department of the Navy, 1943. (Radio Technician Training Series) Reviews material presented in motion picture, "RCL-Resistance Capacitance. Parts 1 and 2." (*SN 1540–ac; 34 frames*)
..... 41

Reading a Drawing of a Valve Bonnet
U.S. Office of Education, 1944. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 5) Reviews material presented in motion picture, same title. (*OE 55; 30 frames*)
..... 41

Reading a Three-View Drawing
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 2) Reviews material presented in motion picture, same title. (*OE 52; 30 frames*)
..... 41

Reaming With Straight Hand Reamers
U.S. Office of Education, 1943. (Machine Shop Work Series. Bench Work No. 4)

Reviews material presented in motion picture, same title. (*OE 37; 47 frames*)
..... 41

Reaming With Taper Hand Reamers
U.S. Office of Education, 1943. (Machine Shop Work Series. Bench Work No. 5) Reviews material presented in motion picture, same title. (*OE 38; 41 frames*)
..... 41

Reassembling the Engine
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 271; 50 frames*)
..... 41

Rebasing Full Dentures
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN 5372–j; 40 frames, color, synchronized disc, 20 minutes*)
..... 41

Reciprocating Engine Construction
U.S. Coast Guard, 1943. (Ship's Engines Series) Construction of reciprocating engine; function of parts; relationship of parts in operation. (*65 frames*)
..... 41

Reciprocating Pump Opening for Inspection
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Outside Machinist) Reviews material presented in motion picture, same title. (*SN 2348–m; 34 frames*)
..... 41

Recognition of Rat Signs for DDT Dusting
U.S. Public Health Service, 1946. (Typhus Control Series) U.S. Typhus fever increase; its location and mode of transmission through rats via fleas to humans; eliminating rats; eliminating rat ectoparasites by DDT; conditions favoring rat invasions; recognition of rat signs; and applying DDT to rat runways. Photographs and drawings. (*CDC–5–027; 70 frames, synchronized disc, 11 minutes*)
..... 27

Reconditioning a Cultivator
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 5) Reviews material presented in motion picture, same title. (*OE 453; 34 frames*)
..... 41

Reconditioning a Cylinder with a Portable Boring Bar
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Outside Machinist) Reviews material presented in motion picture, same title. (*SN 2348–n; 70 frames*)
..... 41

Reconditioning a Grain Drill
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 4) Reviews material presented in motion picture, same title. (*OE 197; 35 frames*)
..... 41

Reconditioning a Mower. Part 1: Cutter Bar
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 1) Reviews material presented in motion picture, same title. (*OE 194; 29 frames*)
..... 41

Reconditioning a Mower. Part 2: Drive System
U.S. Office of Education, 1944. (Farm Work Series. Equipment Maintenance No. 2) Reviews material presented in motion picture, same title. (*OE 195; 40 frames*)
..... 41

Reconditioning a Two-Bottom Tractor Plow
U.S. Office of Education, 1943. (Farm Work Series. Equipment Maintenance No. 3) Reviews material presented in motion picture, same title. (*OE 196; 18 frames*)
..... 41

Recreational and Occupational Therapy
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in

motion picture, same title. (*OE 415; 35 frames*)
..... 41

Redesigning a Pattern for Production Purposes
U.S. Office of Education, 1945. (Precision Wood Machining Series. Problems in Patternmaking) Reviews material presented in motion picture, same title. (*OE 336; 32 frames*)
..... 41

Reduced Voltage Starters
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 3) Reviews material presented in motion picture, same title. (*OE 390; 46 frames*)
..... 41

Refueling the Airplane
U.S. Department of the Navy, 1943. Responsibility, preparations, safety precautions, and equipment for refueling; how to refuel; ground nozzle and plane; avoid static electricity; handle hose; keep gasoline clean and strain to remove water. (*SN 2790; 40 frames*)
..... 7

Regeneration
U.S. Department of the Navy, 1942. Principles involved in setting up a regenerative circuit; its effects and their control. (*SN 655; 23 frames*)
..... 41

Removing and Inspecting Cylinders
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 262; 44 frames*)
..... 41

Removing and Installing a Compressor or Condenser
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 5) Reviews material presented in motion picture, same title. (*OE 442; 42 frames*)
..... 41

Removing and Installing a Cooling Unit
U.S. Office of Education, 1945. (Refrigeration Service Series. Domestic Units No. 6) Reviews material presented in motion picture, same title. (*OE 443; 32 frames*)
..... 41

Removing Defective Rivets
U.S. Office of Education, 1943. (Aircraft Work Series. Assembling and Riveting No. 6) Reviews material presented in motion picture, same title. (*OE 141; 53 frames*)
..... 41

Repainting a Frame Building
U.S. Office of Education, 1944. (Farm Work Series. Painting No. 1) Reviews material presented in motion picture, same title. (*OE 460; 44 frames*)
..... 41

Repairing a Wooden Rib
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 247; 42 frames*)
..... 41

Repairing Aircraft Tires
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 254; 50 frames*)
..... 41

Repairing and Relining Mechanical Brakes
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 256; 54 frames*)
..... 41

Repairing Channels and Stringers
U.S. Department of the Navy, 1942. How to replace channels and stringers in an airplane; their function; how to lay out and form a splice for channel type stringer with bending brake and steel and wood form blocks. (*SN 297; 69 frames*)
..... 41

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Repairing Structural Tubing
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 253; 47 frames*)
..... 41

Reproducers
U.S. Department of the Navy, 1942. Construction and operation of headphones and loudspeakers. (*SN 654; 29 frames*)
..... 41

Repulsion Motor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 5) Reviews material presented in motion picture, same title. (*OE 387; 40 frames*)
..... 41

Repulsion-Induction Motor: General Overhaul
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 6) Reviews material presented in motion picture, same title. (*OE 397; 33 frames*)
..... 41

Rigging Blocks
U.S. Department of the Navy, 1945. (Shipbuilding Skills Series. Rigging) Reviews material presented in motion picture, same title. (*SN 2340–u; 57 frames*)
..... 41

Rigging Changes After Flight
U.S. Department of the Navy, 1943. Construction faults revealed by test flights; tail, wing and nose heaviness; yawing; ground looping; how to make corrections. (*SN 1999; 43 frames*)
..... 41

Ripping and Cross-Cutting
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Variety Saw No. 1) Reviews material presented in motion picture, same title. (*OE 306; 43 frames*)
..... 41

Roadside Marketing
U.S. Department of Agriculture, 1939. Several types of roadside stands; how to make stands attractive by location, display, signs, and advertising; charts on sales distribution in a day, by days of week, in a month, and by months in a year. Revision. (*51 frames*)
..... 39

Rotating Magnetic Fields
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 2) Reviews material presented in motion picture, same title. (*OE 384; 44 frames*)
..... 41

Rough Line-Boring
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 5) Reviews material presented in motion picture, same title. (*OE 229; 31 frames*)
..... 41

Rough Turning Between Centers
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 1) Reviews material presented in motion picture, same title. (*OE 6; 41 frames*)
..... 41

Rough-Facing, Boring, and Turning a Shoulder
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 2) Reviews material presented in motion picture, same title. (*OE 17; 47 frames*)
..... 41

Rough-Facing, Turning, and Drilling
U.S. Office of Education, 1942. (Machine Shop Work Series. Operations on the Vertical Boring Mill No. 1) Reviews material presented in motion picture, same title. (*OE 16; 49 frames*)
..... 41

Roughing-In Non-Metallic Sheathed Cable
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews ma-

terial presented in motion picture, same title. (*OE 373; 41 frames*)
..... **41**

Rough Grinding by Pin-Bar: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. Reviews material presented in motion picture, same title. (*OE 181; 45 frames*)
..... **41**

Rough Grinding: Spherical Surfaces
U.S. Office of Education with the cooperation of the U.S. Department of the Navy, 1944. (Optical Craftsmanship Series) Reviews material presented in motion picture, same title. (*OE 180; 56 frames*)
..... **41**

Rude Star Identifier
U.S. Department of the Navy, 1943. (Navigation Series) How to use star identification table; template discs; establish local meridian; find altitude and azimuth of Jupiter. (*SN 83–t; 57 frames, synchronized disc, 12 minutes*)
..... **41**

Rules of the Road
U.S. Coast Guard, 1943. Review of inland and international rules, privileged and burdened vessels, whistle signals, night signals differentiated by vari-colored lights in specific position. (*69 frames, color*)
..... **41**

Rural Colonial and Early American Homes and Gardens
U.S. Department of Agriculture, 1936. Exteriors and interiors of homes of interest because of their historic and architectural values. (*63 frames*)
..... **39**

Safe Food for Good Health
U.S. Public Health Service, 1945. (Our Health in Your Hands Series) Explains why and how to buy, store, prepare, and serve food to protect it from contamination. For food handlers and sanitarians and general public. (*81 frames, synchronized disc, 15 minutes*)
..... **26, 41**

Safe Handling of Compressed Gases
U.S. Department of the Navy, 1946. (Navy Industrial Gases Series) "Don'ts" in transporting, stowing, and handling gases; importance of temperature, moisture control; protection of valves; disposition of empty cylinders; segregation of various kinds of gases. (*SN 6121–b; 114 frames, color, synchronized disc, [20?] minutes*)
..... **41**

Safe Practices in Handling DDT
U.S. Public Health Service, 1945. (Malaria Control Series) How to take proper precautions in mixing and handling DDT, especially in the home. (*CDC–5–005; 37 frames, synchronized disc, 5 minutes*)
..... **27**

Safe Practices in the Hoisting of Material
U.S. Department of the Air Force [1943?]. Construction and types of wire rope cable; how to "seize" it; how to use slings; right and wrong ways of clipping wire cable; capacities of different wire ropes; hand signals in hoisting; use and care of manila ropes, and procedures to follow for safe hoisting. (*FS 1–545; 82 frames*)
..... **7**

Safety Practices for the Motor Vehicle Driver (Non-Military Driving)
U.S. Department of the Air Force [1943?]. Variety of questions and typical situations to test the motor vehicle operator's knowledge of safe driving practices. (*FS 1–888; 108 frames*)
..... **7**

Sampling and Testing Drinking Water
U.S. Public Health Service, 1950. Title self-explanatory. (*CDC–5–140; 74 frames, color, synchronized disc, 8 minutes*)
..... **27**

Sand Bag Bumping
U.S. Department of the Navy, 1942. How to make sandbag; prepare template; cut metal; select tools; bump metal; and finish job smoothly. (*SN 293; 50 frames*)
..... 41

Sanding Flat and Irregular Surfaces
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Sander No. 1) Reviews material presented in motion picture, same title. (*OE 312; 47 frames*)
..... 41

Sanitary Design in Drinking Fountains
U.S. Public Health Service, 1947. How improperly designed drinking fountains transmit disease; characteristics of proper and improper design. Test exercise. (*CDC–5–081; 52 frames*)
..... 27

Save Work in Doing Dairy Chores
U.S. Department of Agriculture, 1947. How a work study of dairy-barn chores resulted in time saving improvements. Based on Vermont Agricultural Experiment Station Bulletin 503. (*59 frames; single; also double*)
..... 39

Saving Our White Pines From the Blister Rust
U.S. Department of Agriculture, 1935. Many uses of white pines; danger of blister rust; control measures; necessity of destroying the hosts of the fungus, currant and gooseberry plants. (*49 frames*)
..... 39

Sawing a Reverse Curve and a Bevel Reverse Curve
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Band Saw No. 2) Reviews material presented in motion picture, same title. (*OE 310; 38 frames*)
..... 41

Sawing an Internal Irregular Shape
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Metal Cutting Band Saw No. 1) Reviews material presented in motion picture, same title. (*OE 239; 43 frames*)
..... 41

Sawing Template Metal
U.S. Office of Education, 1943. (Aircraft Work Series. Templates No. 4) Reviews material presented in motion picture, same title. (*OE 128; 50 frames*)
..... 41

Sawing with Jig and Changing Band
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Band Saw No. 1) Reviews material presented in motion picture, same title. (*OE 309; 44 frames*)
..... 41

Schistosomiasis
U.S. Public Health Service, 1945. (Schistosomiasis Series) Geographic distribution of blood flukes; identification of species; organs attacked in hosts, snails and man; life cycle; clinical manifestations; symptoms; identification of ova; treatment and prevention of disease. Photographs and drawings. 1st ed. (*CDC–5–006; 80 frames, color, synchronized disc, 12 minutes*)
..... 27

Schistosomiasis
U.S. Public Health Service, 1945. (Schistosomiasis Series) Geographic distribution of blood flukes; identification of species; organs attacked in hosts, snails and man; life cycle; clinical manifestations; symptoms; identification of ova; treatment and prevention of disease. Special version with photomicrographs for biologists and parasitologists. 2nd ed. (*CDC–5–006; 102 frames, color, synchronized disc, 16 minutes*)
..... 27

Scraping Flat Surfaces
U.S. Office of Education, 1943. (Machine Shop Work Series. Bench Work No. 2)

Reviews material presented in motion picture, same title. (*OE 35; 33 frames*)
..... **41**

Second Graders Try Their Wings
U.S. Civil Aeronautics Administration in cooperation with Denver Public Schools, 1949. How second grade class, at Bromwell School, Denver, learned important things about aviation and the part it plays in everyday life. Designed for teacher education. (*64 frames, synchronized disc, 9 minutes*)
..... **7**

Secondary Uses of the Astro-Compass
U.S. Department of the Air Force [1943?]. (Aerial Navigation Series) How to use the astro-compass; how to determine deviation correction using astrograph; how to steer a required heading and identify a star. (*FS 1–422; 25 frames*)
..... **7**

Sectional Views and Projections, Finish Marks
U.S. Office of Education, 1944. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 4) Reviews material presented in motion pictures, same title. (*OE 54; 29 frames*)
..... **41**

Selecting and Judging Breeding Hogs
U.S. Department of Agriculture, 1939. How to score various parts of lard- and bacon-type hogs. Revision. (*31 frames*)
..... **39**

Selecting Hens for Egg Production
U.S. Department of Agriculture, 1940. How to recognize the laying hen; how molting and bleaching index egg production; and how to improve flock by selective breeding. Revision. (*55 frames*)
..... **39**

Selecting Meals for All Occasions
U.S. Public Health Service in cooperation with American Diabetes Association and American Dietetic Association, 1950. (Taking Care of Diabetes Series No. 11) Correct food selection for diabetic when ill, on a picnic, taking lunch to work, and eating at friend's or in a restaurant. Use of meal plan and exchange lists as basis of selection. Ways of providing variety. Primarily for diabetics. (*CDC–5–151; 51 frames, color, synchronized disc, 10 minutes*)
..... **27**

Semiautomatic and Hand Molding of Intricate Parts
U.S. Office of Education, 1945. (Plastics Series No. 6) Reviews material presented in motion picture, same title. (*OE 471; 40 frames*)
..... **41**

Series and Parallel Circuits
U.S. Department of the Navy, 1945. (Radio Technician Training Series. Elementary Electricity) Reviews material presented in motion picture, same title. (*SN 1540–av; 26 frames*)
..... **41**

Service With a Smile
U.S. Public Health Service, 1945. (Our Health in Your Hands Series) Shows what restaurant workers should do to keep well, how they should dress, and how they should serve food to customers. For food handlers and sanitarians and general public. (*63 frames, synchronized disc, 15 minutes*)
..... **26, 41**

Servicing a Propeller
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 277; 52 frames*)
..... **41**

Servicing an Airplane
U.S. Office of Education, 1945. (Aircraft Work Series. Preventive Maintenance) Reviews material presented in motion picture, same title. (*OE 279; 43 frames*)
..... **41**

Servicing and Timing Magnetos
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 266; 40 frames*)
..... **41**

Servicing Hydraulic Systems
U.S. Department of the Navy, 1943. Principles, construction, operation and servicing of airplane hydraulic system. Charts, cartoons and straight photography. Revision, same title, also available. (*SN 115; 49 frames*)
..... 41

Servicing Hydraulic Systems
U.S. Department of the Navy, 1943. Straight photography, charts, and cartoons explain and demonstrate principles, construction, and operation of the hydraulic system of an airplane. Stresses servicing procedures. Revision. (*SN 2000; 51 frames*)
..... 41

Servicing Spark Plugs and Ignition Wiring
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 265; 50 frames*)
..... 41

Servicing Water Cooled Condensers
U.S. Office of Education, 1945. (Refrigeration Service Series. Commercial Systems No. 4) Reviews material presented in motion picture, same title. (*OE 451; 37 frames*)
..... 41

Setting Up and Machining Bar Stock
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 4) Reviews material presented in motion picture, same title. (*OE 215; 58 frames*)
..... 41

Setup for Face Milling With a Fixture
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 1) Reviews material presented in motion picture, same title. (*OE 225; 37 frames*)
..... 41

Setup for Rough Line-Boring
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Horizontal Boring Mill No. 4) Reviews material presented in motion picture, same title. (*OE 228; 35 frames*)
..... 41

The Sextant
U.S. Coast Guard, 1943. (Piloting Series) How to use standard sextant; how different from micrometer sextant; how to measure altitude of sun; how to handle, clean and stow. (*44 frames*)
..... 41

The Shaper
U.S. Department of the Air Force, 1942. (Machine Tools Series) Parts, function, and operation; selection of cutting speeds; holding work on shaper table; precautions. (*FS 1–7; 57 frames*)
..... 41

The Shaper
U.S. Office of Education, 1945. (Machine Shop Work Sries. Basic Machines) Reviews material presented in motion picture, same title. (*OE 70; 40 frames*)
..... 41

Shaping After Template and Shaping Curved Edges
U.S. Office of Education, 1945. (Precision Wood Machining Series. Operations on the Spindle Shaper No. 2) Reviews material presented in motion picture, same title. (*OE 319; 39 frames*)
..... 41

Sharpening a Form Relieved Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 5) Reviews material presented in motion picture, same title. (*OE 93; 27 frames*)
..... 41

Sharpening a Plain Helical Milling Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 2) Reviews material presented in motion picture, same title. (*OE 91; 41 frames*)
..... 41

Sharpening a Shell End Mill
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 3) Reviews material presented in motion picture, same title. (*OE 92; 25 frames*)
..... 41

Sharpening a Side Milling Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 1) Reviews material presented in motion picture, same title. (*OE 90; 59 frames*)
..... 41

Sharpening an Angular Cutter
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Cutter Grinder No. 4) Reviews material presented in motion picture, same title. (*OE 94; 31 frames*)
..... 41

Sharpening and Tempering Farm Tools
U.S. Office of Education, 1945. (Farm Work Series. Forging No. 3) Reviews material presented in motion picture, same title. (*OE 193; 34 frames*)
..... 41

Sheep Shearing
U.S. Office of Education, 1944. (Farm Work Series. Livestock No. 1) Reviews material presented in motion picture, same title. (*OE 199; 52 frames*)
..... 41

The Sheet Bend
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*25 frames*)
..... 41

Ship's Blueprints: Basic
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series) Reviews material presented in motion picture, same title. (*SN 2335–m; 92 frames*)
..... 41

Ships' Propulsion Transmission System: Clutches and Couplings
U.S. Department of the Navy, 1945. Mechanical, fluid, electromagnetic, and disc clutches; flow of power from engine to propeller; main units and operational principles of each type. Schematic drawings. (*SN 2248–a; 114 frames, synchronized disc, [20?] minutes*)
..... 41

Ships' Propulsion Transmission System: Gears, Propeller Shaft and Shaft Bearings
U.S. Department of the Navy, 1945. Uses and operating principles of reduction gears (single, double, locked train and nested types) reversing gears; thrust bearings (collar and shoe, ball and roller bearing) propeller shaft bearings. (*SN 2248–b; 77 frames, synchronized disc, [10?] minutes*)
..... 41

Ship's Pumps
U.S. Coast Guard, 1943. (Ship's Engine Series) General principles and uses of pumps and pumping machinery: steam and electrically driven pumps, centrifugal, rotary, jet, hand, and reciprocating pumps; their operations and servicing. (*59 frames*)
..... 41

Shock
U.S. Department of the Navy, 1942. (First Aid Series) Recognition of symptoms and treatment of shock. Straight photography drawings, titles. (*SN 217–a; 29 frames, synchronized disc, 6 minutes*)
..... 41

Side Frames: Subassembly of a Web Frame
U.S. Office of Education, 1943. (Shipbuilding Skills Series. Work of Shipfitter and Shipwright No. 4) Reviews material presented in motion picture, same title. (*OE 27; 45 frames*)
..... 41

Simple Calculations for Flat Layouts
U.S. Department of the Navy, 1942. How to calculate and lay out flanges, bends, heads, and seams on metal. Straight photography, drawings. (*SN 1035; 64 frames*)
..... 41

Simple Foundation
U.S. Department of the Navy, 1944 (Shipbuilding Skills Series. The Shipfitter) Reviews material presented in motion pictures, "Simple Foundation, Parts 1, 2 and 3." (*SN 2338–n; 98 frames*)
..... 41

Simple Valves
U.S. Department of the Navy, 1944. (Hydraulic Valves Series) Five simple hydraulic valves: gate, globe, needle, check and simple relief; common valve casualties; their causes and remedies. (*SN 1809–b; 65 frames, synchronized disc, 12 minutes*)
..... 7

A Simple Way To Iron a Shirt
U.S. Department of Agriculture, 1944. Quick simple method of ironing men's shirts requiring little time; convenient equipment; washing, bleaching, and scrubbing for improved looks; folding to preserve appearance and conserve drawer space. (*44 frames: single; also double*)
..... 39

Single Ram Vertical Surface Broaching
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on a Broaching Machine No. 2) Reviews material presented in motion picture, same title. (*OE 237; 48 frames*)
..... 41

Single-Phase and Polyphase Circuits
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 1) Reviews material presented in motion picture, same title. (*OE 383; 51 frames*)
..... 41

The Slide Rule: "C" and "D" Scales
U.S. Office of Education, 1943. Reviews material presented in motion picture, same title. (*OE 179; 53 frames*)
..... 41

The Slide Rule: Proportion, Percentage, Squares and Square Roots
U.S. Office of Education, 1944. Reviews material presented in motion picture, same title. (*OE 354; 44 frames*)
..... 41

Slip Covers for Straight Chairs
U.S. Department of Agriculture, 1940. How to measure for amount of material needed, select fabric, cut, fit, and finish. (*64 frames*)
..... 39

Slip Covers for Upholstered Chairs
U.S. Department of Agriculture, 1940. How to measure two types of chairs for amount of material needed; select fabric; cut, fit, trim, finish; and make and use patterns. (*65 frames*)
..... 39

Soil and Water Conservation by the Beaver
U.S. Department of Agriculture, 1938. History, habits, and economic relations of beaver with reference to farm and forest lands; how to establish new colonies by live trapping and transplanting. (*48 frames*)
..... 39

Soil Conservation Benefits Wildlife
U.S. Department of Agriculture, 1939. How nature reclaims areas saved by soil conservation providing cover for game, fish and wildlife. (*31 frames*)
..... 39

Soil Erosion and Its Control in Orchards
U.S. Department of Agriculture, 1941. How run-off and wind ruin orchards by gullying and drifting soil; methods of control including use of brush mulch. (*38 frames: single; also double*)
..... 39

Soil Erosion in the United States
U.S. Department of Agriculture, 1937. How man-made erosion causes vast losses in land and crops and lowers living standards. (*48 frames*)
..... 39

Soldering
U.S. Department of the Navy, 1941. How to prepare bit, soldering cables, terminals, splices and solder sheetmetal on airplanes; uses of solder, flux and soldering copper. Aircraft machine shop demonstration film especially for turret school. (*SN 1529; 72 frames*)
..... 41

Soldering Lugs and Splicing Stranded Conductors
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 371; 39 frames*)
..... 41

Soldering Practice
U.S. Department of the Navy, 1942. Procedures in the care and use of the soldering iron. Special film for turret school. Revision. (*SN 1530; 46 frames*)
..... 41

Solving Special Basic Problems
U.S. Department of the Air Force, 1943. (Slide Rule Operation and Application No. 3) How to use slide rule to find squares, cubes, square roots and cube roots of numbers, area and circumference of a circle, reciprocals of numbers and the product of three numbers. (*FS 1–438; 38 frames*)
..... 7

Some Methods of Estimating Milk Quality by Bacterial Tests
U.S. Department of Agriculture, 1939. Three tests for estimating bacteria in milk and counting colonies; necessity of clean utensils and surroundings for high-quality milk. Revision. (*49 frames*)
..... 39

Some Principles of Breeding Demonstrated with the Herediscope
U.S. Department of Agriculture, 1942. Practical application of fundamental laws of heredity with the herediscope designed by R. R. Graves, Bureau of Dairy Industry. Revision. (*40 frames*)
..... 39

Southern Pines Pay
U.S. Dpartment of Agriculture, 1940. How to turn idle land to profit by planting pines for turpentine, timber, and other products; how to protect stands against fire. (*50 frames*)
..... 39

Special Purpose Vacuum Tubes
U.S. Department of the Navy, 1943. Radio Technician Training Series) Construction, sizes, models, and multiple uses of various vacuum tubes. (*SN 1540–g; 75 frames, synchronized disc, 19 minutes*)
..... 41

Splicing a Wooden Spar
U.S. Office of Education, 1945. (Aircraft Work Series. Aircraft Maintenance) Reviews material presented in motion picture, same title. (*OE 248; 45 frames*)
..... 41

Split-Phase Motor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 4) Reviews material presented in motion picture, same title. (*OE 386; 48 frames*)
..... 41

Split-Phase Motor Rewinding
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 3) Reviews material presented in motion picture, same title. (*OE 394; 40 frames*)
..... 41

Spot Welding
U.S. Office of Education, 1945. (Aircraft Work Series. Assembling and Riveting No. 9) Reviews material presented in motion picture, same title. (*OE 295; 44 frames*)
..... 41

Spotting Immediate Training Needs
U.S. Department of the Army, 1944. (On-the-Job-Supervision Series No. 2) How training employees in their jobs solves the problem of many errors. (*SFS 80–3; ?? frames, synchronized disc, 15 minutes*)
..... 41

Spray-Painting Equipment
U.S. Department of the Navy, 1942. Function of typical paint-spraying outfit: spray gun; material containers; hose; air transformer; condenser; compressor. (*SN 107; 60 frames*)
..... 41

Spray-Time
U.S. Public Health Service, 1945. (Malaria Control Series) Several methods of malaria mosquito eradication with emphasis on residual spraying with DDT. Stresses family cooperation with spray program for successful home spraying. Photographs. (*CDC–5–028; 83 frames, synchronized disc, 13 minutes*)
..... 27

Spread and Prevention of Trichinosis
U.S. Department of the Army, 1948. Causes, effects and spread of trichinosis; precautionary measures from pigsty to dinner table to prevent and eradicate the disease. (*SFS 8–111; ?? frames, synchronized disc, 20 minutes*)
..... 41

Spread and Prevention of Trichinosis
U.S. Public Health Service, 1948. Life cycle of T. spiralis; prevalence and spread of trichinosis; symptoms of the disease; control measures; and, consumer preventive measures. Photographs, drawings and photomicrographs. (*CDC–5–090; 67 frames, synchronized disc, 12 minutes*)
..... 27

The Square Knot
U.S. Coast Guard, 1941. Reviews material presented in motion picture, same title. (*26 frames*)
..... 41

Squeeze Riveting: Stationary and Portable Riveters
U.S. Office of Education, 1945. (Aircraft Work Series. Assembling and Riveting No. 7) Reviews material presented in motion picture, same title. (*OE 293; 36 frames*)
..... 41

Squirrel-Cage Rotor Principles
U.S. Office of Education, 1945. (Electrical Work Series. Electrical Machinery No. 3) Reviews material presented in motion picture, same title. (*OE 385; 28 frames*)
..... 41

Staining Blood Films for Malaria Parasite Examination
U.S. Public Health Service, 1947. (Malaria Control Series) How to stain thick and thin blood films for laboratory diagnosis of malaria. Technique of preparing Giemsa, Wright-Giemsa, and Wright's blood stains. Photographs and titles. (*CDC–5–072; 90 frames, color, synchronized disc, 14 minutes*)
..... 27

Standard Breeds of Poultry
U.S. Department of Agriculture, 1940. Shows standard varieties of poultry, male and female, and parts of fowls; various breeds of geese, ducks, and turkeys. Revision. (*48 frames*)
..... 39

Steam Engine Indicator
U.S. Coast Guard, 1943. (Ship's Engines Series) How indicator works in diagrams; how to interpret indicator; its value in detecting faulty engine performance. (*76 frames*)
..... 41

Steam Turbine Construction
U.S. Coast Guard, 1943. (Ship's Engines Series) Appearance of turbine installation; principles of impulse—and reaction-type turbine; how steam is injected at high velocity with only moderate heat loss as compared to reciprocating engine. (*80 frames*)
..... 41

The Steel Rule
U.S. Office of Education, 1943. (Machine Shop Work Series. Precision Measurement No. 1) Reviews material presented in motion picture, same title. (*OE 1; 52 frames*)
..... 41

Steering
U.S. Coast Guard, 1943. Effect of rudder and propeller on steering; how to report for duty at wheel; commands to follow when changing course, how to use lubber line and compass for steering. (*122 frames*)
..... 41

Steering, Wheels, Front and Rear Axles
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 8) Reviews material presented in motion picture, same title. (*OE 484, 43 frames*)
..... 41

Step by Step in Everyday Tasks
U.S. Department of Agriculture, 1944. Efficient housework management; short easy way to do each task; how to eliminate unnecessary motions and steps. (*60 frames: single; also double*)
..... 39

A Step-Saving U Kitchen
U.S. Department of Agriculture, 1949. Details of kitchen designed by Bureau of Human Nutrition and Home Economics according to work-simplification principles. (*40 frames: double, color*)
..... 42

Stop, Look, and Question
U.S. Department of the Army, 1945. (On-the-Job-Supervision Series) Importance of stop, look, and question in performing the duties of a job. (*SFS 80–8; ?? frames, synchronized disc, 20 minutes*)
..... 41

The Story of the Aircraft Propeller
U.S. Department of the Navy, 1943. Principle upon which all propellers operate; operating advantages and limitations of different modern types of propellers; nomenclature and location of parts; brief history. Revision. (*SN 2788; 49 frames*)
..... 7

Straddle and Surface Milling to Close Tolerances
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Milling Machine No. 2) Reviews material presented in motion picture, same title. (*OE 13; 53 frames*)
..... 41

Straddle Milling
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Milling Machine No. 3) Reviews material presented in motion picture, same title. (*OE 14; 40 frames*)
..... 41

Su No Convidado Huesped
U.S. Public Health Service, 1945. (Controlamiento de la Fiebre Del Dengue Y de la Fiebre Amarilla) Spanish version of "Your Uninvited Guests" 2nd ed. (*CDC–5–001.2; 94 frames, synchronized disc, 11 minutes*)
..... 27

Sumatra
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area. Netherlands East Indies) Sumatra's aerologic and climatic characteristics; how to make the best of existing conditions; characteristics of the different natives. (*SN 1538–o; 97 frames, color, synchronized disc, 15 minutes*)
..... 41

Survival in the South Pacific
U.S. Department of the Navy, 1943. (Theaters of War Series. Pacific Area) How to obtain water, food, build a fire, construct a shelter, get along with natives, and protect self if forced down on island. (*SN 1538–x; 80 frames, synchronized disc, 16 minutes*)
..... 41

Swaging Cable Terminals
U.S. Office of Education, 1944. (Aircraft Work Series. Control Cables No. 3) Reviews material presented in motion picture, same title. (*OE 298; 37 frames*)
..... 41

Synchro Systems. Part 1: Discussion Film
U.S. Department of the Navy, 1944. (Radio Technician Training Series) Reviews material presented in motion picture, same title. (*SN 1540–aw; 36 frames*)
..... 41

Synchro Systems. Part 2: Discussion Film
U.S. Department of the Navy, 1944. (Radio Technician Training Series) Reviews material presented in motion picture, same title. (*SN 1540–ax; 24 frames*)
..... 41

Tachometers and Synchronism Indicators
U.S. Department of the Air Force, 1942. (Instruments Series) Operating principles of aircraft tachometers; inspection and maintenance procedures. (*FS 1–26; 51 frames*)
..... 41

Teaching Crutch Walking
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 422; 48 frames*)
..... 41

Ten-Eighty, a Rat Poison for Professional Use
U.S. Public Health Service, 1950. (Typhus Control Series) Importance and dangers of 1080: favorable, unfavorable and mixed properties of compound 1080; how to prepare 1080 water; poison rats; and take necessary safety precautions. (*CDC–5–124; 73 frames, synchronized disc, 15 minutes*)
..... 27

Tension Testing
U.S. Office of Education, 1944. (Engineering Series) Reviews material presented in motion picture, same title. (*OE 348; 45 frames*)
..... 41

Test
U.S. Coast Guard, 1943. (Piloting Series) Review quiz of twenty questions for piloting series. (*44 frames*)
..... 41

Tests In Diabetes
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 7) Value and interpretation of urine and sugar blood testing results. Procedure for home urine testing by patient and proper course of action for positive findings. Primarily for diabetics. (*CDC–5–147; 37 frames, color, synchronized disc, 10 minutes*)
..... 27

Therapeutic Uses of Heat and Cold. Part 1: Administering Hot Applications
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 408; 39 frames*)
..... 41

Therapeutic Uses of Heat and Cold. Part 2: Administering Cold Applications
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 409; 46 frames*)
..... 41

Thermometer
U.S. Department of the Air Force, 1942. (Instruments series) Use, operation, and maintenance of various types of aircraft thermometers. (*FS 1–51; 53 frames*)
..... 41

Thomas Jefferson, the Farmer
U.S. Department of Agriculture, 1944. How Jefferson promoted agriculture in Nation's economy: his search for improved methods, labor-saving implements and machines, better crops and livestock; his views on agricultural education, experimentation, and cooperative action. (*63 frames: single; also double*)
..... 39

300 Representative Works of Art from the National Gallery
U.S. National Gallery of Art, 1949. 300 representative works of art in gallery collection. (*300 frames, double*)
..... 29

Three-Phase Motor. Part 1: Preparing to Rewind
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 4) Reviews material pre-

sented in motion picture, same title. (*OE 395; 35 frames*)
..... 41

Three-Phase Motor. Part 2: Rewinding
U.S. Office of Education, 1945. (Electrical Work Series. Motor Maintenance and Repair No. 5) Reviews material presented in motion picture, same title. (*OE 396; 31 frames*)
..... 41

Three-Wire Service Entrance
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 374; 50 frames*)
..... 41

Thrufeed Grinding a Straight Pin. Part 1
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 1) Reviews material presented in motion picture, same title. (*OE 85; 41 frames*)
..... 41

Thrufeed Grinding a Straight Pin. Part 2
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Centerless Grinding Machine No. 2) Reviews material presented in motion picture, same title. (*OE 81; 43 frames*)
..... 41

Time Pieces
U.S. Coast Guard, 1943. (Piloting Series) How to use chronometer in navigation; its delicacy; chronometer rate, and error; how to wind. (*36 frames*)
..... 41

Tinning and Solder Wiping
U.S. Office of Education, 1944. (Shipbuilding Skills Series. Coppersmithing No. 4) Reviews material presented in motion picture, same title. (*OE 343; 59 frames*)
..... 41

Tool Box. Part 1: Bottom and Sides
U.S. Department of the Navy, 1943. How to make and assemble bottom, sides, ends, and corner reinforcements of metalsmith's toolbox; laying out; forming of parts. (*SN 104–a; 43 frames*)
..... 41

Towing, Mooring, Handling Airplanes
U.S. Department of the Air Force, 1942. How to tow, moor, jack and hoist various types of airplanes. (*FS 1–215; 81 frames*)
..... 7

Towing Seaplanes
U.S. Department of the Navy, 1942. How to approach seaplanes for towing; secure ropes; tow under different wind conditions. (*SN 824; 46 frames*)
..... 41

Transfer Molding: Molding a Part with Inserts
U.S. Office of Education, 1945. (Plastics Series No. 5) Reviews material presented in motion picture, same title. (*OE 470; 35 frames*)
..... 41

Transferring Bees to Movable Frame Hives
U.S. Department of Agriculture, 1942. Procedure of transferring bees; smoking and drumming; cutting combs, care in handling; use of modern equipment; how to build apiary sheltered from wind of northern winters. (*36 frames: single; also double; color; also b&w*)
..... 39, 42

The Transit. Part 1: Description, Set-up and Leveling
U.S. Department of the Army, 1943. Title self-explanatory. (*FS 6–33; 67 frames*)
..... 41

The Transit. Part 2: Verniers
U.S. Department of the Army, 1943. Title self-explanatory. (*FS 6–34; 60 frames*)
..... 41

Transition Phase: Basic Training. Part 1
U.S. Department of the Air Force [1943?]. Correct procedures for cockpit check; taxiing, control positions during take-off turns after take-off climbing

turns and leveling off. Purpose and meaning of transition phase. Revision. (*FS 1–890; 41 frames*)
..... 7

Transition Phase: Basic Training. Part 2
U.S. Department of the Air Force [1943?]. Procedures for medium turns, gliding turns, landings, coordination exercises and steep turns. Revision. (*FS 1–891; 50 frames*)
..... 7

Transition Phase: Basic Training. Part 3
U.S. Department of the Air Force [1943?]. Factors influencing airspeed at which stalls occur; how to recover from standard stalls, characteristic stalls (power off) rudder-controlled stalls (power on) normal recovery stalls (power on and off). Revision. (*FS 1–990; 55 frames*)
..... 7

Transition Piece, Square to Round Layout and Fabrication
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sheetmetal Work) Reviews material presented in motion picture, same title. (*SN 2339–p; 45 frames*)
..... 41

Transmission, Drive Shaft, and Differential
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Preventive Maintenance No. 9) Reviews material presented in motion picture, same title. (*OE 485; 33 frames*)
..... 41

Traversing
U.S. Department of the Army, 1945. (Surveying No. 2) Title self-explanatory. (*FS 5–77; 78 frames*)
..... 41

Treat Seed Grain
U.S. Department of Agriculture, 1938. Nature and transmission of diseases of cereals; control by preventive cleaning and treating of seed grain. (*56 frames*)
..... 39

Tree Planting and Land Use
U.S. Department of Agriculture, 1941. How mistakes in land use cause loss of yields and soil; how to restore ruined land with plantings adapted to sites and with proper care. (*54 frames: single; also double*)
..... 39

Trichinosis, a Disease Easily Prevented
U.S. Department of Agriculture, 1939. Stages of parasite, causes of disease, its spread and prevention. (*31 frames*)
..... 39

Trickling Filter Plants
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Plant Series No. 3) Operation and maintenance of standard and high-rate trickling filter plants: separation of solids; economics of plants and type of operator required; and, comparison of resulting effluent discharge to original raw sewage of other plants. (*CDC–5–159; 94 frames, synchronized disc, 9 minutes*)
..... 27

The Triode: Amplification
U.S. Office of Education, 1945. (Engineering Series. Electronics No. 3) Reviews material presented in motion picture, same title. (*OE 177; 36 frames*)
..... 41

Trouble Shooting Problems: Fuel Induction
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 276; 48 frames*)
..... 41

Trouble Shooting Problems: Ignition
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance) Reviews material presented in motion picture, same title. (*OE 275; 42 frames*)
..... 41

Trouble Shooting Problems: Mechanical and Lubrication
U.S. Office of Education, 1945. (Aircraft Work Series. Power Plant Maintenance)

Reviews material presented in motion picture, same title. (*OE 274; 46 frames*)
..... 41

Trouble Shooting Your Car
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 5) Reviews material presented in motion picture, same title. (*OE 490; 29 frames*)
..... 41

Tube Bending by Hand
U.S. Office of Education, 1943. (Aircraft Work Series) Reviews material presented in motion picture, same title. (*OE 142; 38 frames*)
..... 41

Tuning
U.S. Department of the Navy, 1942. How to tune a circuit. (*SN 649; 27 frames*)
..... 41

Turbine Operation
U.S. Coast Guard, 1943. (Ship's Engines Series) Operating layout of ship's main turbine; preparing to start turbine, starting, standing by and maneuvering, getting up speed and shutting down. (*80 frames*)
..... 41

Turning a Cylinder Between Centers
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 1) Reviews material presented in motion picture, same title. (*OE 313; 46 frames*)
..... 41

Turning a Taper With the Tailstock Set Over
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 6) Reviews material presented in motion picture, same title. (*OE 44; 54 frames*)
..... 41

Turning Taper Work
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 2) Reviews material presented in motion picture, same title. (*OE 314; 49 frames*)
..... 41

Turning Work Held on a Fixture
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 10) Reviews material presented in motion picture, same title. (*OE 58; 34 frames*)
..... 41

Turning Work Held on a Mandrel
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 13) Reviews material presented in motion picture, same title. (*OE 61; 28 frames*)
..... 41

Turning Work in a Chuck
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 4) Reviews material presented in motion picture, same title. (*OE 316; 38 frames*)
..... 41

Turning Work of Two Diameters
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 2) Reviews material presented in motion picture, same title. (*OE 7; 34 frames*)
..... 41

Turning Work on a Face Plate
U.S. Office of Education, 1944. (Precision Wood Machining Series. Operations on the Wood Lathe No. 3) Reviews material presented in motion picture, same title. (*OE 315; 48 frames*)
..... 41

The Turret Lathe: An Introduction
U.S. Office of Education, 1945. (Machine Shop Work Series. Operations on the Turret Lathe No. 1) Reviews material presented in motion picture, same title. (*OE 212; 30 frames*)
..... 41

Two Half Hitches and a Round Turn
U.S. Coast Guard, 1943. Reviews material presented in motion picture, same title. (*31 frames*)
..... 41

Types of Damaged Kernels and Other Conditions
U.S. Department of Agriculture, 1950. Corn and soybean classes; types of damaged kernels in commercial lots of wheat, corn, and soybeans. (*33 frames: double, color*)
..... **42**

A Typical Flight
U.S. Civil Aeronautics Administration, 1943. How to control instrument flight on civil airway, Washington National Airport to LaGuardia Field, N. Y.: filing and closing flight plan; reporting time and altitude over specified radio range stations. (*35 frames, color, synchronized disc, 14 minutes*)
..... **7, 41**

Unconsciousness
U.S. Department of the Navy, 1942. (First Aid Series) How to treat hysteria, fainting, heat exhaustion, heat stroke or sunstroke, epilepsy, apoplexy, carbon-monoxide poisoning, drowning, electric shock. Straight photography, drawings. (*SN 217–b; 59 frames, synchronized disc, 13 minutes*)
..... **41**

Under Control: The Story of Malaria Prevention Around Man-Made Lakes
U.S. Public Health Service, 1946. (Malaria Control Series) How Plasmodium parasites cause malaria; life cycle and breeding places of Anopheles quadriculatus, the malaria carrying mosquito; TVA mosquito control and inspection measures. Photographs, drawings, and charts. (*CDC–5–039; 91 frames, color, synchronized disc, 16 minutes*)
..... **27**

Use of Aerial Photographs
U.S. Bureau of the Census, 1949. How to use aerial photos in census work; identifying features on the photo. (*25 frames, synchronized microgroove disc, 13 minutes, or script*)
..... **5**

The Use Of Aircraft For Insect Control. Part 1: Mosquito Control
U.S. Public Health Service, 1949. (Malaria Control Series) Reviews material presented in motion picture, same title. (*CDC–5–113; 71 frames, synchronized disc, 14 minutes*)
..... **27**

The Use of Logs in Farm Buildings
U.S. Department of Agriculture, 1944. Revival of log building construction to conserve critical work materials; construction procedures; sample structures. (*50 frames: single; also double*)
..... **39**

Using a Boring Bar Between Centers: Work Held on a Carriage
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 16) Reviews material presented in motion picture, same title. (*OE 64; 33 frames*)
..... **41**

Using a Follower Rest
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 15) Reviews material presented in motion picture, same title. (*OE 63; 30 frames*)
..... **41**

Using a Portable Spray Gun
U.S. Office of Education, 1945. (Aircraft Work Series. Finishing) Reviews material presented in motion picture, same title. (*OE 289; 39 frames*)
..... **41**

Using a Shell End Mill
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Vertical Milling Machine No. 1) Reviews material presented in motion picture, same title. (*OE 72; 20 frames*)
..... **41**

Using a Steady Rest
U.S. Office of Education, 1943. (Machine Shop Work Series. Operations on the Engine Lathe No. 14) Reviews material presented in motion picture, same title. (*OE 62; 34 frames*)
..... **41**

Using a Steady Rest When Boring
U.S. Office of Education, 1944. (Machine Shop Work Series. Operations on the Engine Lathe No. 17) Reviews material presented in motion picture, same title. (*OE 65; 39 frames*)
..... 41

Vacuum Tubes
U.S. Department of the Navy, 1942. Theory of vacuum tubes operation; their function in the radio circuit. (*SN 650; 37 frames*)
..... 41

Valve Types and Reversing Gears
U.S. Coast Guard, 1943. (Ship's Engines Series) Eccentric action, construction and function of parts of various valve types and gears; how to reverse engine. (*62 frames*)
..... 41

Vaned Elbow: Layout and Fabrication
U.S. Department of the Navy, 1943. (Shipbuilding Skills Series. Sheetmetal Work) Reviews material presented in motion picture, same title. (*SN 2339–n; 60 frames*)
..... 41

Venereal Disease and Tuberculosis Survey In Georgia
U.S. Public Health Service, 1948. (Venereal Disease Series) How to conduct survey: careful planning; favorable publicity; cooperation of key people; local personnel trained; permanent and roving stations for X-rays and blood tests; and, confidential reports. Photographs. (*CDC–5–121; 112 frames, synchronized disc, 11 minutes*)
..... 27

Verniers
U.S. Office of Education, 1943. (Machine Shop Work Series. Precision Measurement No. 4) Reviews material presented in motion picture, same title. (*OE 4; 37 frames*)
..... 41

Vertical Welds, Steel
U.S. Department of the Navy, 1942. Torch manipulation while making vertical welds on steel. Aircraft machine shop demonstration film. (*SN 130; 41 frames*)
..... 41

Vises, Screwdrivers, Hammers and Pliers
U.S. Department of the Air Force [1943?]. (Use and Care of Hand Tools Series No. 1) Different types of vises, screwdrivers, hammers, and pliers and how to use and properly care for each type. (*FS 1–647; 68 frames*)
..... 7

Visualizing an Object
U.S. Office of Education, 1945. (Machine Shop Work Series. Fundamentals of Blueprint Reading No. 1) Reviews material presented in motion picture, same title. (*OE 51; 29 frames*)
..... 41

The Vital Signs and Their Interrelation: Body Temperature, Pulse, Respiration, Blood Pressure
U.S. Office of Education, 1945. (Nursing Series) Reviews material presented in motion picture, same title. (*OE 406; 81 frames*)
..... 41

Vivax Malaria
U.S. Public Health Service, 1948. (Malaria Control Series) Biology of Plasmodium vivax malaria, the temperate zone malaria: distribution, clinical manifestations, diagnosis, treatment and prevention of vivax infections. Photographs, drawings, and charts. (*CDC–5–043; 76 frames, color, synchronized disc, 17 minutes*)
..... 27

Watertight Cover
U.S. Department of the Navy, 1944. (Shipbuilding Skills Series. Sheetmetal Work) Reviews material presented in motion picture, same title. (*SN 2339–o; 57 frames*)
..... 41

Waxing Dentures
U.S. Department of the Navy, 1949. (Dental Prosthetic Laboratory Technique Series) Title self-explanatory. (*SN*

953821—51——20

5372–e; 40 frames, color, synchronized disc, 10 minutes)
..... 41

Weather
U.S. Department of the Navy, 1942. How high-and-low pressure areas, and cold fronts develop; measures to be taken by pilot. (*SN 808; 77 frames*)
..... 7

Weather Control During Instrument Flight. Part 1
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Instrument flying in adverse weather; formation and dangers of ice; de-icers and electric units removing ice. (*SN 1059–s; 101 frames, synchronized disc, 16 minutes*)
..... 41

Weather Control During Instrument Flight. Part 2
U.S. Department of the Navy, 1943. (Instrument Flight Control Series) Flight factors in adverse weather: altitude, terrain, storm size, intensity, and velocity, distance to go, and type of aircraft. (*SN 1059–t; 78 frames, synchronized disc, 24 minutes*)
..... 41

Weather Map Symbols: Navy Quiz No. 44
U.S. Department of the Navy, 1944. Four sets of eighteen questions each on weather conditions and symbols. (*SN 2542–ar; 87 frames*)
..... 7

Weights and Measures for Hospital Corpsmen
U.S. Department of the Navy, 1943. Principal points in the apothecary and metric systems of weights and measures. (*SN 1581; 86 frames, synchronized disc, 19 minutes*)
..... 41

Welding Aluminum Tubes With Sheets
U.S. Department of the Navy, 1942. Peculiarities of aluminum; necessary equipment; how to weld an aluminum tube to a flat sheet. (*SN 145; 33 frames*)
..... 41

What Is Diabetes?
U.S. Public Health Service in cooperation with American Diabetes Association, 1950. (Taking Care of Diabetes Series No. 1) To develop wholesome attitude through better understanding of nature and control of diabetes. To stress patient's responsibility for self-management and control of diabetes and close cooperation with doctor to insure normal happy life. Primarily for diabetics. (*CDC–5–141; 46 frames, color, synchronized disc, 10 minutes*)
..... 27

What Is Right
U.S. Department of the Army, 1949. (The Character Guidance Program Series. The Chaplain's Hour) Title self-explanatory. (*FS 16–3; ? frames, color*)
..... 41

What Puts a 4-H Girl "In"?
U.S. Department of Agriculture, 1950. How 4-H girl solves problems of proper fitting and selection of dresses and accessories; tips on improving personal appearance. (*34 frames: double, color*)
..... 42

Wheat Kernel Classes and Varieties
U.S. Department of Agriculture, 1950. Head and kernel characteristics of wheat, especially Hard Red Winter class. (*43 frames: double, color*)
..... 42

Where and How Many?
U.S. Bureau of the Census, 1949. How to locate dwelling places and find people and list respondents under various circumstances. (*47 frames, color, synchronized microgroove disc, 9 minutes, or script*)
..... 5

Wild Fruits for Soil Conservation
U.S. Department of Agriculture, 1946. How to produce native or adopted fruits on eroded odd waste acreage for improved human nutrition and land pro-

tection in area. (*36 frames: single; also double*)
..... 39

Wildlife and Soil Conservation
U.S. Department of Agriculture, 1947. How farmers can increase and protect wildlife for crop protection against pests, and for recreation, game, and marketing; improve land pattern for travel lanes and plant wasteland for wildlife shelter and food. (*58 frames: single; also double*)
..... 39

Wildlife Management Through Soil Conservation in the Northeast
U.S. Department of Agriculture, 1939. How engineering practices and planting save land, making useless land a refuge and source of feed for wildlife. (*50 frames*)
..... 39

Wind Erosion: Its Control on the Southern Great Plains
U.S. Department of Agriculture, 1937. How erosion starts and the destruction caused; how to prevent and control it with soil and water saving practices. (*45 frames*)
..... 39

Wing Assembly: The Bow Tip
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 6) Reviews material presented in motion picture, same title. (*OE 284; 36 frames*)
..... 41

Wing Assembly: The Inboard Panel
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 5) Reviews material presented in motion picture, same title. (*OE 300; 35 frames*)
..... 41

Wing Assembly: The Nose Section
U.S. Office of Education, 1944. (Aircraft Work Series. Wood Fabrication No. 4) Reviews material presented in motion picture, same title. (*OE 299; 44 frames*)
..... 41

Wire Sizes and Voltage Drop
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 372; 26 frames*)
..... 41

Wiring Old Buildings with Armored Cable
U.S. Office of Education, 1945. (Electrical Work Series. Wiring) Reviews material presented in motion picture, same title. (*OE 379; 38 frames*)
..... 41

Wiring Telltale Panel
U.S. Office of Education, 1945. (Shipbuilding Skills Series. Marine Electricity No. 6) Reviews material presented in motion picture, same title. (*OE 115; 49 frames*)
..... 41

Worms In Your Muscles
U.S. Public Health Service, 1948. Life cycle of T. spiralis; medical implications of trichinosis; control measures and consumer preventive measures. Photographs, drawings and photomicrographs. Sub-professional. (*CDC–5–095; 52 frames, synchronized disc, 10 minutes*)
..... 27

Wound Rotor Controllers
U.S. Office of Education, 1945. (Electrical Work Series. Motor Control No. 4) Reviews material presented in motion picture, same title. (*OE 391; 40 frames*)
..... 41

Wounds. Part 1
U.S. Department of the Navy, 1942. (First Aid Series) How to stop bleeding and prevent infection. Straight photography, titles. (*SN 220–a; 50 frames, synchronized disc, 10 minutes*)
..... 41

Wounds. Part 2
U.S. Department of the Navy, 1942. (First Aid Series) How to treat abrasions; clean animal and snake bites. Straight photography, titles, drawings. (*SN 220–b; 49 frames, synchronized disc, 11 minutes*)
..... 41

X-Ray Inspection
U.S. Office of Education, 1944. (Engineering Series. Materials Testing No. 1)

Reviews material presented in motion picture, same title. (*OE 173; 54 frames*) 41

You Are the VA
U.S. Veterans' Administration, 1946. Importance of knowing VA policy thoroughly; being patient; courteous, tactful; using common sense; taking responsibility; following through. Training filmstrip for VA contact representative. (*109 frames, synchronized disc, 22 minutes*) 31

You Can Take It With You
U.S. Veterans' Administration, 1946. Advantages of keeping GI insurance. (*81 frames, synchronized disc, 18 minutes*) 31

Your Driving Habits
U.S. Office of Education, 1945. (Automotive Operation and Maintenance Series. Automobile Operation No. 2) Reviews material presented in motion picture, same title. (*OE 487; 40 frames*) 41

Your Job and the NP Patient. Parts 1, 2, and 3
U.S. Veterans' Administration, 1947. How to handle patients with neuropsychiatric disabilities. Training film for attendants in neuropsychiatric hospitals, professional personnel and medical students. (*137 frames*) 31

Your Map Is Your Guide
U.S. Bureau of the Census, 1949. Kinds of maps in census work, urban and rural; how to use them. (*73 frames, color, synchronized microgroove disc, 20 minutes, or script*) 5

Your Safety Belt
U.S. Department of the Navy, 1942. Importance of properly fastened safety belt; how it can become loose; precautions in use; various types of belts: Army, Navy and commercial. (*SN 1259; 45 frames*) 7

Your Strip Film Projector
U.S. Public Health Service, 1945. How to use Sandwick Model MC-364 for sound filmstrips: assemble projector, load and focus, set turntable speed, connect microphone, check volume, place record, check needle, and adjust tone and volume controls. Photographs and titles. (*CDC–5–003; 65 frames*) 27

Your Uninvited Guests
U.S. Public Health Service, 1945. (Dengue and Yellow Fever Series) Life cycle of A. aegypti, dengue and yellow fever mosquito; some past epidemics; and, how to locate and eliminate mosquito breeding places about the home. Photographs, cartoons and drawings. 2nd ed. Spanish version "Su No Convidado Huesped." (*CDC–5–001; 94 frames; synchronized disc, 11 minutes*) 27

Sets of Slides

UNLESS otherwise indicated the sets of slides listed and described in this catalog are black-and-white slides. Color slides are so identified.

Each set of slides is described as follows: (a) the title of the set; (b) the name of the producing agency and the date of production; (c) the series title if the slides are part of a series; (d) a descriptive summary of the content of the slides; (e) references to related films; and (f) the order number of the set of slides if it has such a number, the number of slides in the set, the size of the slides, and special notations for color slides.

Following these descriptive data are several numbers in bold-face type. These code numbers refer to specific instructions for obtaining Government slides which are explained on pages 306-329 of this catalog. To learn how to obtain the first set of slides listed below, for example, turn to page 312 where under code number 27, directions are given for borrowing these slides from the U. S. Public Health Service.

Activated Sludge Process
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 5) Operation of screen chamber, grit chamber, primary clarifier, aeration tanks, secondary clarifiers, and other procedures in activated sludge process. Aerial and over-all ground views and graphic flow diagrams. (*CDC–9–033.5; 41 slides, 2 x 2 in.*)
..... **27**

Aquatic Plants Associated With Anopheles Breeding Areas
U.S. Public Health Service, 1949. Aquatic plants found in environs of representative breeding places of Anopheles quadriculatus, crucians and punctipennis in Southeastern states. Arranged according to system of Engler and Prantl. (*CDC–5–092; 169 slides, color, 2 x 2 in.*)
..... **27**

Cancer Nursing Slides
U.S. Public Health Service, 1948. Postoperative care of cancer patient. Special procedures: nasal and gastrostomy feeding; dressings and care of tracheostomy; laryngectomy, mastectomy, colostomy, cystostomy, limb amputations; home transfusions; and handling radium and radon seeds. Procedure for breast self-examination. (*100 slides, 2 x 2 in., also 3¼ x 4 in., accompanying script*)
..... **27**

Chemical Precipitation Process
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 3) Chemical precipitation and stage digestion process in grit chamber and clarifier. Aerial and over-all ground views and graphic flow diagrams. (*CDC–9–033.3; 49 slides, 2 x 2 in.*)
..... **27**

The Christmas Story in Paintings from the National Gallery of Art
U.S. National Gallery of Art, 1949. The Christmas story as painted by the early

Flemish and Italian artists: Fra Angelico; Jan Van Eyck; Petrus Christus; Giorgione; Botticelli; Gerard David; Bellini; and, others, with a critical discussion of each work. (*34 slides, 2 x 2 in., also 3¼ x 4 in., color*)

..... 29

Imhoff Tank Process

U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 1) How two types of Imhoff tanks purify raw sewage: bar screen; inlet; grease accumulation; scum on gas vent; gas bubbles at surface of gas vent; dried sludge on open sand drying bed; plant effluent entering stream. Aerial and over-all ground views and graphic flow diagram. (*CDC–9–033.1; 20 slides, 2 x 2 in.*)

..... 27

The Lesions of Syphilis

U.S. Public Health Service in cooperation with U.S. Department of the Army and U.S. Department of the Navy, 1949. To illustrate authentic lesions in early acquired syphilis; primary and secondary; late syphilis; skin; bone; cartilage; and joints; and congenital syphilis, early and late. (*100 slides, 2 x 2 in., color*)

..... 27

Medical Cancer Slide Series

U.S. Public Health Service, 1948. Cross lesions and X-ray photographs of diagnosed cancers of specific sites. Accompanying booklet provides chief complaint of patient, case history and physical findings. For doctors and medical students. (*86 slides, 2 x 2 in., mostly b&w, some in color*)

..... 27

Miscellaneous Aerial Views

U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 7) Aerial views of standard trickling filter, chemical precipitation, primary treatment and activated sludge plants. (*CDC–9–033.7; 8 slides, 2 x 2 in.*)

..... 27

Oral Cancer Slide Series

U.S. Public Health Service, 1947. Benign and malignant lesions of oral cavity and skin of neck and head. Accompanying booklet provides chief complaint of patient, case history and physical findings. For dentists and dental students. (*22 slides, 2 x 2 in., color*)

..... 27

Primary Treatment Process

U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 2) Primary clarifiers and sludge digesters: grit and scum removal; bar screen raw sewage inlet; chlorination; sludge digestion; sludge pumps; gas burner; sampling; drying bed; removal of dried sludge; use of stable humus of sludge. Aerial and overall ground views and graphic flow diagram. (*CDC–9–033.2; 19 slides, 2 x 2 in.*)

..... 27

Q (Query) Fever

U.S. Public Health Service, 1950. Nature, diagnosis and control of "Q" fever: animal infection; transmission; description of disease; diagnostic tests; and, control measures. (*CDC–9–037; 90 slides, 2 x 2 in., color*)

..... 27

Statistical Slides

U.S. Public Health Service, 1950. Graphic statistical material to supplement cancer lectures or be used as complete unit with available commentary. For medical personnel and societies. (*13 slides, 2 x 2 in., color, accompanying script*)

..... 27

Trickling Filter Process
U.S. Public Health Service, 1950. (Municipal Sewage Treatment Equipment and Structures Series No. 4) Operation of overall trickling plant from screenings through primary and secondary clarifiers until effluent joins stream; analytical and administrative work; and plant maintenance. Aerial and over-all ground views and graphic flow diagrams. (*CDC–9–033.4; 105 slides, 2 x 2 in.*)
..... **27**

Vacuum Filtration and Incineration Process
U.S. Public Health Service, 1950 (Municipal Sewage Treatment Equipment and Structures Series No. 6) How sludge, dried with rotary vacuum filter, is carried by conveyor belts and trucks to incinerator and burnt; low areas are filled with ash; and excess activated sludge is mixed with raw primary sludge. (*CDC–9–033.6; 16 slides, 2 x 2 in.*)
..... **27**

How and Where to Obtain U. S. Government Films

U. S. Government Film Libraries

THE FOLLOWING U. S. Government agencies lend their films without charge, except for transportation costs, for public use within the United States. Borrowers should write to the nearest source of the particular films which are desired.

U.S. Department of Agriculture

1

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

Borrow the films coded 1 from the Regional Offices of the Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, located at the following addresses:

2288 Fulton Street
Berkeley 4, Calif.

111 Federal Office Building
Minneapolis 1, Minn.

618 Realty Building
Spokane, Wash.

20 Sanderson Street
Greenfield, Mass.

208 Federal Building
Harrisonburg, Va.

628 East Michigan Street
Milwaukee 1, Wis.

2

FARM CREDIT ADMINISTRATION

Borrow the films coded 2 from the following offices of the Farm Credit Administration:

Farm Credit Administration of Berkeley
Box 525
Berkeley, Calif.

Farm Credit Administration of Wichita
Douglas Avenue and Main Street
Wichita 2, Kansas

Farm Credit Administration of Louisville
224 East Broadway
Louisville 1, Ky.

Farm Credit Administration
of New Orleans
860 St. Charles
New Orleans 7, La.

Farm Credit Administration of Baltimore
St. Paul and Twenty-fourth Streets
Baltimore 3, Md.

Farm Credit Administration of Springfield
310 State Street
Springfield, Mass.

Farm Credit Administration of St. Paul
344 Jackson Street
St. Paul 1, Minn.

Farm Credit Administration of St. Louis
1501 Locust Street
St. Louis 3, Mo.

Farm Credit Administration of Omaha
Nineteenth and Douglas Streets
Omaha, Neb.

Farm Credit Administration of Columbia
Box 1499
Columbia, S. C.

Farm Credit Administration of Spokane
610 Main Avenue
Spokane 8, Wash.

3

FOREST SERVICE

Borrow the films coded 3 from the Washington and Regional Offices of the Forest Service. Address requests to the U. S. Forest Service at the following addresses:

Juneau, Alaska

630 Sansone Street
San Francisco 11, Calif.

Post Office Building
Denver, Colo.

South Agriculture Building
Washington 25, D. C.

50 Seventh Street, NE.
Atlanta 5, Ga.

Federal Building
Missoula, Mont.

Post Office Building
Albuquerque, N. Mex.

Post Office Building
Portland, Oreg.

Bankers' Securities Building
Philadelphia, Pa.

Forest Service Building
Ogden, Utah

Madison Building
Milwaukee 3, Wis.

4

SOIL CONSERVATION SERVICE

Borrow the films coded 4 from the Washington and Regional Offices of the Soil Conservation Service. Address requests to the U. S. Department of Agriculture, Soil Conservation Service at the following addresses:

South Agriculture Building
Washington 25, D. C.

P.O. Box 713
Lincoln 1, Nebr.

P.O. Box 1348
Albuquerque, N. Mex.

Swan Island
Portland 18, Oreg.

Center Building
Upper Darby, Pa.

Spartanburg, S. C.

P.O. Box 1898
Fort Worth, Tex.

434 North Plankinton Avenue
Milwaukee 3, Wis.

U. S. Department of Commerce

5

BUREAU OF THE CENSUS

Borrow the films coded 5 from the Bureau of the Census. Address requests to Director of the Census, Attention: Film Distribution Project, Bureau of the Census, U. S. Department of Commerce, Washington 25, D. C.

6

BUREAU OF PUBLIC ROADS

Borrow the films coded 6 from the U. S. Department of Commerce, Bureau of Public Roads, Washington 25, D. C.

7

CIVIL AERONAUTICS ADMINISTRATION

Borrow the films coded 7 from the Washington and Regional Offices of the Civil Aeronautics Administration. Address requests to the U. S. Department of Commerce, Civil Aeronautics Administration at the following addresses:

P.O. Box 440
Anchorage 1, Alaska

5651 Manchester Avenue
Los Angeles 45, Calif.

Audio-Visual Aids, W–153
Washington 25, D. C.

50 Seventh Street NE.
Atlanta 5, Ga.

P.O. Box 4009
Honolulu 12, Hawaii

Chicago International Airport
Park Ridge, Ill.

City Hall Building
Kansas City 6, Mo.

Federal Building
New York International Airport
Jamaica, N. Y.

P.O. Box 1689
Fort Worth 1, Tex.

P.O. Box 3224
Seattle 14, Wash.

8

MARITIME COMMISSION

Borrow the film coded 8 from the Motion Picture Service, U. S. Department of Agriculture, Washington 25, D. C.

9

NATIONAL BUREAU OF STANDARDS

Borrow the films coded 9 from the U. S. Department of Commerce, National Bureau of Standards, Washington 25, D. C. Distribution restricted to professional dental groups.

10

OFFICE OF SMALL BUSINESS

Borrow the film coded 10 from the U. S. Department of Commerce, Office of Small Business, Washington 25, D. C.

U. S. Department of Defense

11

U. S. DEPARTMENT OF THE AIR FORCE

Borrow the films coded 11 from the following Air Force film libraries. Address requests to the Public Information Officer, U. S. Department of the Air Force, at the following addresses:

Brookley Air Force Base
Mobile, Ala.

McClellan Air Force Base
Sacramento, Calif.

Robins Air Force Base, Ga.

Tinker Air Force Base
Oklahoma City, Okla.

Olmstead Air Force Base
Middletown, Pa.

Kelly Air Force Base
San Antonio, Tex.

Hill Air Force Base
Ogden, Utah

12

U. S. DEPARTMENT OF THE ARMY

Borrow the films coded 12 from the Signal Corps film libraries. Address requests to the Commanding General and direct them to the attention of the Signal Officer.

First Army
Governors Island
New York 4, N. Y.

Second Army
Fort George G. Meade, Md.

Third Army
Fort McPherson, Ga.

Fourth Army
San Antonio, Tex.

Fifth Army
Chicago, Ill.

Sixth Army
San Francisco, Calif.

13

U. S. DEPARTMENT OF THE ARMY

Borrow the films coded 13 from the U. S. Department of the Army, Office of the Chief Engineer, Technical Information Division, Pictorial Branch, Washington 25, D. C.

14

U. S. DEPARTMENT OF THE NAVY

Borrow the films coded 14 from the following Navy film libraries. Address requests to the Commandant and direct them to the Assistant for Public Information.

First Naval District
495 Summer Street
Boston 10, Mass.

Third Naval District
90 Church Street
New York 7, N. Y.

Fourth Naval District
U.S. Naval Base
Philadelphia 12, Pa.

Fifth Naval District
U.S. Naval Base
Norfolk 11, Va.

Sixth Naval District
U.S. Naval Base
Charleston, S. C.

Eighth Naval District
Federal Office Building
New Orleans 12, La.

Ninth Naval District
U.S. Naval Training Center
Great Lakes, Ill.

Eleventh Naval District
Navy Headquarters Building
San Diego, Calif.

Twelfth Naval District
Federal Office Building
San Francisco 2, Calif.

Thirteenth Naval District
U.S. Naval Station
Seattle 99, Wash.

Potomac River Naval Command
U.S. Naval Gun Factory
Building 200
Washington 25, D. C.

15

U. S. MARINE CORPS

Borrow the films coded 15 from the Recruiting Offices of the U. S. Marine Corps located at the following addresses:

Post Office Building
Birmingham 3, Ala.

U.S. Federal Building
Little Rock, Ark.

751 South Figueroa Street
Los Angeles 17, Calif.

Federal Office Building
San Francisco 2, Calif.

100 Harrison Street
San Francisco 6, Calif.

Old Custom House
Denver 2, Colo.

15

U.S. MARINE CORPS (Cont'd)

Post Office Building
Hartford, Conn.

1400 Pennsylvania Avenue NW.
Washington 4, D. C.

Post Office Building
Jacksonville 1, Fla.

U.S. Naval Air Station
Atlanta, Ga.

Post Office Building
Macon, Ga.

U.S. Court House
Chicago 4, Ill.

Federal Building
Indianapolis 4, Ind.

Old Federal Building
Des Moines 9, Iowa

Federal Building
Louisville 1, Ky.

U.S. Custom House
New Orleans 16, La.

Federal Court House Building
Portland 3, Maine

Post Office Building
Baltimore 2, Md.

Post Office Building
Boston 9, Mass.

New Federal Building
Detroit 26, Mich.

Federal Office Building
Minneapolis, Minn.

Post Office Building
Jackson 99, Miss.

811 Grand Avenue
Kansas City 6, Mo.

U.S. Court and Customs House
St. Louis 1, Mo.

Naval and Marine Corps Reserve Center
Omaha 11, Nebr.

Post Office Building
Albany 1, N. Y.

Post Office Building
Buffalo 3, N. Y.

346 Broadway
New York 13, N. Y.

Post Office Building
Raleigh, N. C.

Post Office and Court House Building
Cincinnati 2, Ohio

Federal Building
Cleveland 14, Ohio

Federal Building
Oklahoma City 2, Okla.

New U.S. Court House
Portland, Oreg.

New Customs House
Philadelphia 6, Pa.

Old Post Office Building
Pittsburgh 19, Pa.

1210 Washington Street
Columbia, S. C.

U.S. Court House Building
Nashville 3, Tenn.

U.S. Terminal Annex Building
Dallas 2, Tex.

Federal Office Building
Houston, Tex.

Post Office Building
San Antonio, Tex.

Fort Douglas
Salt Lake City 1, Utah

Marine Corps Reserve Training Center
Richmond 24, Va.

110 Union Street
Seattle 1, Wash.

Cobell County Court House
Huntington 1, W. Va.

Post Office Building
Milwaukee 2, Wis.

U. S. Department of the Interior

16

BONNEVILLE POWER ADMINISTRATION

Borrow the films coded 16 from the U. S. Department of the Interior, Bonneville Power Administration, Portland 8, Oreg.

17

BUREAU OF MINES

Borrow the films coded 17 from the U. S. Department of the Interior, Bureau of Mines, 4800 Forbes Street, Pittsburgh 13, Pa.

18

BUREAU OF RECLAMATION

Borrow the films coded 18 from the U. S. Department of the Interior, Bureau of Reclamation, Washington 25, D. C.

19

GEOLOGICAL SURVEY

Borrow the films coded 19 from the U. S. Department of the Interior, Geological Survey, Washington 25, D. C. Distribution restricted to engineering colleges and other professional audiences.

20

FISH AND WILDLIFE SERVICE

Borrow the films coded 20 from the U. S. Department of the Interior, Fish and Wildlife Service, P.O. Box 128, College Park, Md.

U. S. Department of the Treasury

21

U. S. COAST GUARD

Borrow the films coded 21 from the Washington and District Offices of the U. S. Coast Guard at the following addresses:

P.O. Box 2991
Juneau, Alaska

706 Times Building
Long Beach 2, Calif.

630 Sansome Street
San Francisco 26, Calif.

Coast Guard Headquarters
Public Information Office
Washington 25, D. C.

2610 Tiger Tail Avenue
Miami 33, Fla.

P.O. Box 4010
Honolulu, Hawaii

P.O. Box 282
New Orleans 9, La.

1400 Custom House
Boston 9, Mass.

Eighth and Olive Streets
St. Louis 1, Mo.

80 Lafayette Street
New York 13, N. Y.

1700 Keith Building
Cleveland 15, Ohio

New Post Office Building
Norfolk, Va.

618 Second Avenue
Seattle 4, Wash.

22

American Battle Monuments Commission

Borrow the film coded 22 from the American Battle Monuments Commission, Main Navy Building, Washington 25, D. C.

23

Atomic Energy Commission

Borrow the films coded 23 from the U. S. Atomic Energy Commission, 1901 Constitution Avenue, Washington 25, D. C.

24

Economic Cooperation Administration

Borrow the films coded 24 from A. F. Films, Inc., 1600 Broadway, New York 19, N. Y.

25

U. S. Department of Health, Education, and Welfare

BUREAU OF OLD AGE AND SURVIVORS INSURANCE

Borrow the film coded 25 from the U. S. Department of Health, Education, and Welfare, Bureau of Old Age and Survivors Insurance, Baltimore, Md.

26

U. S. PUBLIC HEALTH SERVICE

Borrow the films coded 26 from the U. S. Public Health Service, Public Inquiries Branch, Washington 25, D. C. Distribution is restricted to State and local health departments, public health and medical schools, and professional organizatons.

27

U. S. PUBLIC HEALTH SERVICE

Borrow the films coded 27 from the U. S. Public Health Service, Communicable Disease Center, 605 Volunteer Building, Atlanta 3, Ga. Distribution is restricted to professional and subprofessional groups.

28

National Advisory Committee for Aeronautics

Borrow the films coded 28 from the National Advisory Committee for Aeronautics, 1724 F Street NW., Washington 25, D. C.

29

National Gallery of Art

Borrow the films coded 29 from the National Gallery of Art, Washington 25, D. C.

30

Tennessee Valley Authority

Borrow the films coded 30 from the Tennessee Valley Authority, Film Service, Knoxville, Tenn.

31

Veterans Administration

Borrow the films coded 31 from the U. S. Veterans Administration, VA Central Film Library, Washington 25, D. C.

16mm Film Libraries

32

BORROW or rent the films coded 32 from the 16mm film libraries listed below. Individually none of these libraries has all of the films of the U. S. Government but they do have a sizable number of such films which they lend or rent within the United States. Some of these libraries are official depositories of the films of individual agencies such as the Department of Agriculture and the Bureau of Mines. Others have purchased prints of various Government films which they lend or rent. Both depository and nondepository libraries are included in the following list; they have not been differentiated.

This is not an exhaustive list of 16mm film libraries handling U. S. Government films. Instead it is a selective list of those libraries (a) which reported having a number of such films, (b) which assented to their listing in this catalog, and (c) which agreed to cooperate with the United States Government in furthering the distribution of Government films.

For the convenience of users, these 16mm film libraries have been listed alphabetically by States and cities. The resources and services of each library have been described briefly in terms of the number and kind of current U. S. Government films (titles) in the library. In these annotations, because of space limitations, the names of agencies have been abbreviated into their alphabetical symbols, e.g., USDA for U. S. Department of Agriculture or USN for U. S. Navy. Following this descriptive summary there is a succinct statement of the restrictions, if any, placed by a library upon its distribution of films. Catalog users should note and observe these restrictions which are, in many cases, set by law.

Because of their variability, local loan conditions and rental rates have not been specified. Film users can and should obtain such information from individual libraries.

Alabama

Alabama Polytechnic Institute
Agricultural Extension Service
Auburn

Approximately 50 U.S. Government films —primarily USDA; distribution restricted to Alabama.

Stevens Pictures, Inc.
217 North Twenty-second Street
Birmingham

Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

University of Alabama
Extension Division
Audio-Visual Aids
P.O. Box 1991
University
Approximately 75 U.S. Government films —primarily OIAA.

Alaska

Ideal Pictures
Box 2006
Anchorage
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

University of Alaska
College
Approximately 40 U.S. Government films —primarily USDA and USBM; distribution restricted to Alaska.

Arizona

University of Arizona
Visual Aids Bureau
Tucson
Approximately 150 U.S. Government films —mostly USDA, USBM, and OIAA.

Arkansas

Arkansas State Teachers College
Conway
Approximately 100 U.S. Government films —mostly USDA and USBM.

Arkansas Agricultural Extension Service
P.O. Box 391
Little Rock
Approximately 35 U.S. Government films —all USDA; distribution restricted to Arkansas County Agents.

Arkansas State Department of Education
Audio-Visual Service
Little Rock
Approximately 100 U.S. Government films —mostly USDA and USOE; distribution restricted to Arkansas Public Schools and State Colleges.

California

Placer County Schools
Audio-Visual Education
Auburn
Approximately 25 U.S. Government films —all USBM.

University of California Extension
Department of Visual Education
Berkeley
Approximately 175 U.S. Government films —USDA, USBM, and OIAA; distribution restricted to eight Western States.

Solano County Schools
Audio-Visual Education
Fairfield
Approximately 60 U.S. Government films —primarily USOE, some USN; distribution restricted to Solano County.

Ideal Pictures
2950 West Seventh Street
Los Angeles 5
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Los Angeles County Museum
Exposition Park
Los Angeles 17
Approximately 50 U.S. Government films —mostly OIAA, some in Spanish.

Los Angeles County Schools
Division of Audio-Visual Education
808 North Spring Street
Los Angeles 12
Approximately 60 U.S. Government films —mostly USOE, some USN; distribution restricted to Los Angeles County Public Schools.

University of California
University Extension
Visual Education
Los Angeles 24
Approximately 150 U.S. Government films —USDA, USBM, and OIAA; distribution restricted to eight Western States.

Ideal Pictures Corp.
4247 Piedmont Avenue
Oakland 11
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Association Films
351 Turk Street
San Francisco 2
Approximately 60 U.S. Government films —mostly OIAA and USOE; distribution restricted to Western United States.

California State Polytechnic College
Audio-Visual Education
San Luis Obispo
Approximately 175 U.S. Government films —primarily USOE; distribution restricted to the College and to the San Luis Obispo County Schools.

Orange County Schools
Audio-Visual Services
1104A West Eighth Street
Santa Ana
Approximately 75 U.S. Government films —mainly OIAA, also USDA, USOE, and USN; distribution restricted to Orange County Public Schools.

Ventura County Schools
Audio-Visual Education Department
P.O. Box 851
Ventura
Approximately 80 U.S. Government films —USOE, OIAA, OWI, USDA; distribution restricted to Ventura County.

Colorado

University of Colorado
Bureau of Audio-Visual Instruction
Boulder
Approximately 150 U.S. Government films —primarily OIAA, USBM, and USDA; distribution primarily for Rocky Mountain region.

Akin & Bagshaw Film Library
2023 East Colfax Avenue
Denver 6
Approximately 40 U.S. Government films —mainly USOE and USDA.

Ideal Pictures
714 Eighteenth Street
Denver 2
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

University of Denver
Denver
Approximately 60 U.S. Government films —all OIAA.

Colorado A & M College
Visual Aid Service
Fort Collins
Approximately 35 U.S. Government films —all USDA; distribution restricted to Colorado and neighboring States.

Connecticut

Connecticut State Department
of Education
Library of Audio-Visual Materials
302 State Office Building
Hartford
Approximately 200 U.S. Government films —mostly USOE and OIAA; distribution restricted to Connecticut, primarily to Public Schools.

University of Connecticut
Audio-Visual Aids Center
Storrs
Approximately 300 U.S. Government films —OIAA, USOE, USDA, USAF, and other agencies; distribution restricted to Connecticut.

Delaware

University of Delaware
Newark
Approximately 25 U.S. Government films —all USDA.

Photo Shops, Inc.
1007 Tatnall Street
Wilmington 9
Approximately 50 U.S. Government films —mainly OIAA; distribution limited to Eastern United States.

District of Columbia

Paul L. Brand & Son
2153 K Street, NW.
Washington 7
Approximately 30 U.S. Government films —USA, USN and USAF.

District of Columbia Public Library
Film Reference and Lending Service
Washington
Approximately 30 U.S. Government films —of various agencies; distribution restricted to groups in the District of Columbia.

District of Columbia Public Schools
Visual Instruction Library
Eckington Administration Annex
First and Quincy Place, NE.
Washington 2

953821—51——21

Approximately 70 U.S. Government films —USOE, USN, USDA, and USBM; distribution restricted to District of Columbia Public Schools.

"The" Film Center
915 Twelfth Street, NW.
Washington 5
Approximately 250 U.S. Government films —USA, USN, OWI, USDA, and OIAA.

Florida

University of Florida
General Extension Division
Department of Visual Instruction
Gainesville
Approximately 190 U.S. Government films —mainly USDA, USBM, and OIAA; distribution restricted to Florida.

Florida State Board of Health
Division of Health Information
P.O. Box 210
Jacksonville 1
Approximately 25 U.S. Government films —mainly USPHS and IIAA; distribution restricted to Florida.

Ideal Pictures Corp.
1348 North Miami Avenue
Miami 36
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Stevens Pictures, Inc.
9536 NE. Second Avenue
Miami
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Dade County Cooperative
Audio-Visual Association
275 Northwest Second Street
Miami Beach 36
Approximately 30 U.S. Government films —USDA, USN, USOE, and OIAA; distribution restricted to Dade County Public Schools.

Southern Photo and News
608 East Lafayette Street
Tampa 2
Approximately 25 U.S. Government films —mainly USDA.

Georgia

Agricultural Extension Service
Athens
Approximately 65 U.S. Government films —mainly USDA.

University of Georgia
Division of General Extension
Old College
Athens
Approximately 210 U.S. Government films —OIAA, USDA, and USBM.

Calhoun Co.
235 Ponce de Leon Avenue, NE.
Atlanta 5
Approximately 75 U.S. Government films —mostly OIAA; distribution restricted to Georgia.

Ideal Pictures Corp.
52 Auburn Avenue, NE.
Atlanta 3
Approximately 200 U.S. Government films —mostly USOE and OIAA, also USAF, USDA, and USN.

Stevens Pictures, Inc.
101 Walton Street
Atlanta 3
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Hawaii

Hawaii Department of Health
Office of Health Education
Honolulu 1
Approximately 40 U.S. Government films —mainly USPHS; distribution restricted to Hawaii.

Ideal Pictures
1370 South Beretania Street
Honolulu
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

University of Hawaii
Agricultural Extension Service
Honolulu
Approximately 40 U.S. Government films —mainly USDA; distribution restricted to Hawaii.

Idaho

University of Idaho
Agricultural Extension Division
Film Library
Boise

Approximately 95 U.S. Government films —USDA, OIAA, and USBM; distribution restricted to Idaho.

Idaho State College
Educational Film Library
Pocatello

Approximately 115 U.S. Government films —OWI, USOE and USBM; distribution restricted to schools of Idaho.

Illinois

University of Illinois
Visual Aids Service
210 Union Arcade
Champaign

Approximately 250 U.S. Government films —USDA, USBM, OIAA, USOE, and OWI.

American Film Registry
24 East Eighth Street
Chicago 5

Approximately 75 U.S. Government films —mainly USOE and OIAA, some USDA and USN.

Association Films
79 East Adams Street
Chicago 3

Approximately 60 U.S. Government films —mostly OIAA and USOE; distribution restricted to Central United States.

Chicago Public Schools
Division of Visual Education
2230 West Cortland
Chicago 47

Approximately 75 U.S. Government films —mainly USOE, some USAF and USN; distribution restricted to Chicago Public Schools.

Ideal Pictures Corp.
58 East South Water Street
Chicago 1

Approximately 200 U.S. Government films —mainly USOE and OIAA, some USAF, USDA, and USN.

International Film Bureau, Inc.
6 North Michigan Avenue
Chicago 2

Approximately 100 U.S. Government films —mainly USOE and OIAA.

Indiana

Indiana University
Audio-Visual Center
Bloomington

Approximately 500 U.S. Government films —USDA, USOE, USBM, USN, OIAA, OWI, and others.

Gary Public Library
Fifth Avenue at Adams Street
Gary

Approximately 25 U.S. Government films —mainly OWI, some USA and USN; distribution restricted to holders of Library cards.

Ideal Pictures Corp.
815 North Pennsylvania Street
Indianapolis 2

Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Ball State Teachers College
Library
Muncie

Approximately 75 U.S. Government films —mainly OIAA; distribution restricted to Indiana.

Indiana State Teachers College
Extension Film Service
Terre Haute

Approximately 75 U.S. Government films —mostly OIAA and OWI.

Dennis Film Bureau, Inc.
29 East Maple Street
Wabash

Approximately 75 U.S. Government films —mostly OIAA, some OWI.

Purdue University
Film Library
West Lafayette

Approximately 50 U.S. Government films —mostly USDA.

Iowa

Iowa State College
Visual Instruction Service
Ames
Approximately 300 U.S. Government films —USDA, OIAA, USOE, USBM, OWI, and others; distribution restricted to Iowa and neighboring States.

Eastin Pictures, Inc.
707 Putnam Building
Davenport
Approximately 50 U.S. Government films —mostly USOE, some USDA and USN.

Des Moines Public Schools
629 Third Street
Des Moines 9
Approximately 40 U.S. Government films —almost all OIAA; distribution restricted to Des Moines Public Schools.

Ideal Pictures
1108 High Street
Des Moines
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

State University of Iowa
Extension Division
Bureau of Audio-Visual Instruction
Iowa City 4
Approximately 180 U.S. Government films —OIAA, USOE, USBM, USAF, and others; distribution restricted primarily to Iowa.

Kansas

University of Kansas
University Extension
Bureau of Visual Instruction
Lawrence
Approximately 175 U.S. Government films —USDA, USBM, OIAA, USOE, and USN.

Kansas State College
Extension Service
Manhattan
Approximately 45 U.S. Government films —USDA; distribution restricted to Kansas.

Kansas State Board of Health
Topeka
Approximately 30 U.S. Government films —mainly USPHS; distribution limited to Kansas.

Kentucky

University of Kentucky
Bureau of Audio-Visual Materials
Lexington
Approximately 150 U.S. Government films —USDA, USBM, OIAA, and other agencies; distribution restricted to Kentucky.

D. T. Davis Co.
528 South Fifth Street
Louisville 2
Approximately 70 U.S. Government films —mainly OIAA, some USOE.

Ideal Pictures
423 West Liberty Street
Louisville 2
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

National Film Service
422 West Breckenridge Avenue
Louisville 3
Approximately 100 U.S. Government films —mainly USOE and OIAA.

Louisiana

Louisiana State University
Agricultural Extension Service
Baton Rouge
Approximately 50 U.S. Government films —USDA.

Ideal Pictures Corp.
3218 Tulane Avenue
New Orleans 19
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Orleans Parish School Board
Department of Audio-Visual Aids
1532 Calliope Street
New Orleans 13
Approximately 100 U.S. Government films —mainly OIAA and USOE.

Stevens Pictures, Inc.
1307 Tulane Avenue
New Orleans
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Louisiana Polytechnic Institute
Film Library Division
Ruston
Approximately 60 U.S. Government films —mainly OIAA; distribution restricted to Louisiana.

Maine

University of Maine
Audio-Visual Service
South Stevens Hall
Orono
Approximately 130 U.S. Government films —mainly OIAA, USDA, and USBM; distribution restricted to New England.

Maryland

Ideal Pictures
506 St. Paul Street
Baltimore 2
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Kunz Motion Picture Service, Inc.
426 North Calvert Street
Baltimore 2
Approximately 130 U.S. Government films —mainly USOE and OIAA, some USAF and USN.

University of Maryland
Extension Service
Film Library
College Park
Approximately 60 U.S. Government films —all USDA; distribution restricted to Maryland.

Massachusetts

University of Massachusetts
Extension Service
Amherst
Approximately 100 U.S. Government films —USDA, OIAA, and USBM; distribution restricted to Massachusetts.
Audio-Visual Corporation

Vesco Film Library
116 Newbury Street
Boston 16
Approximately 250 U.S. Government films —USOE, OIAA, and others; distribution restricted to New England.

Boston University
School of Public Relations
and Communications
Division of Motion Pictures, Photography, and Visual Aids
84 Exeter Street
Boston 16
Approximately 90 U.S. Government films —OIAA and USBM.

Ideal Pictures
40 Melrose Street
Boston 16
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Iris Movie Library
646 Crescent Street
Brockton
Approximately 45 U.S. Government films —OIAA.

Massachusetts Motion Picture Service
132 Central Avenue
Lynn
Approximately 30 U.S. Government films —mainly the USOE series on supervision.

Michigan

University of Michigan
Audio-Visual Education Center
Ann Arbor
Approximately 350 U.S. Government films —USOE, USDA, OIAA, USBM, and other agencies; distribution primarily to Michigan.

Cosmopolitan Films
3248 Gratiot Avenue
Detroit 7
Approximately 40 U.S. Government films —OIAA; distribution restricted to Midwest States.

Detroit Public Library
Audio-Visual Department
5201 Woodward Avenue
Detroit 2
Approximately 80 U.S. Government films —of various agencies; distribution limited to Detroit area and for group use.

Ideal Pictures Corp.
7338 Woodward Avenue
Detroit 1
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Michigan State College
Visual Aids Service
East Lansing
Approximately 65 U.S. Government films —mainly USDA; distribution restricted to Michigan.

Michigan Department of Health
Bureau of Education
Lansing 4
Approximately 30 U.S. Government films —mostly USPHS; distribution restricted to Michigan.

Saginaw County Schools
Audio-Visual Education Center
123 Harrison Street
Saginaw
Approximately 30 U.S. Government films —of various agencies; distribution limited to Saginaw County Schools supporting the Center.

Minnesota

University of Minnesota
Extension Film Library
111 Administration Building
Duluth
Approximately 40 U.S. Government films —mostly USOE and USN; distribution restricted to northern Minnesota.

Ideal Pictures
301 West Lake Street
Minneapolis 8
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Midwest Audio-Visual Co.
2216 Nicollet Avenue
Minneapolis
Approximately 175 U.S. Government films —mostly USOE and OIAA, some USDA and USN; distribution restricted to Minnesota, the Dakotas, northern Iowa, and western Wisconsin.

University of Minnesota
Audio-Visual Extension Service
230 Nothrop Memorial Auditorium
Minneapolis 14
Approximately 100 U.S. Government films —primarily USDA, OIAA, and USBM.

St. Paul Public Schools
Visual Education
629 Court House
St. Paul 2
Approximately 35 U.S. Government films —of various agencies; distribution restricted to St. Paul Public Schools.

Mississippi

Mississippi State Department of Education
Division of Instruction
Audio-Visual Education
Jackson
Approximately 25 U.S. Government films —all USDA; distribution restricted to Mississippi.

Mississippi State College
State College
Approximately 50 U.S. Government films —all USDA.

Missouri

University of Missouri
Adult Education and Extension Service
Visual Education Department
Columbia
Approximately 150 U.S. Government films —primarily USDA, OIAA, and USBM.

Ideal Pictures
1020 Oak Street
Kansas City 6
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Ideal Pictures
5154 Delmar Boulevard
St. Louis 8
Approximately 200 U.S. Government films —mainly USOE and OIAA, some USAF, USDA, and USN.

St. Louis Board of Education
Division of Audio-Visual Education
1517 South Theresa Avenue
St. Louis 4

Approximately 60 U.S. Government films —USOE, USBM, and other agencies; distribution restricted to St. Louis Public Schools.

St. Louis County Schools
Visual Education Department
7220 Waterman Avenue
St. Louis 5
Approximately 75 U.S. Government films —of various agencies; distribution restricted to St. Louis County Schools.

Swank Motion Pictures, Inc.
614 North Skinker Boulevard
St. Louis 5
Approximately 50 U.S. Government films —mostly USOE series on supervision and nursing.

Montana

Montana State College
Extension Service
Publications Department
Bozeman
Approximately 65 U.S. Government films —primarily USDA; distribution restricted to Montana.

Montana State Department of Public Instruction
Montana State Film Library
Helena
Approximately 125 U.S. Government films —OIAA and USDA; distribution restricted to Montana.

Nebraska

University of Nebraska
University Extension Division
Bureau of Audio-Visual Aids
Lincoln 8
Approximately 200 U.S. Government films —USDA, OIAA, USOE, USBM, and others; distribution restricted to Nebraska and neighboring States.

Church Film Service
2595 Manderson Street
Omaha 11
Approximately 50 U.S. Government films —USDA and other agencies.

University of Omaha
Bureau of Teaching Aids
Omaha 1
Approximately 70 U.S. Government films —all OIAA.

Nevada

University of Nevada
Agricultural Extension Division
Reno
Approximately 70 U.S. Government films ——mostly USDA; distribution restricted to Nevada.

New Hampshire

University of New Hampshire
Audio-Visual Center
Durham
Approximately 125 U.S. Government films —mostly USDA and OIAA.

Rice Film Company
123 Pleasant Street
Manchester
Approximately 40 U.S. Government films —USOE, OIAA, and others.

New Jersey

J. C. Reiss Co.
10 Hill Street
Newark 2
Approximately 40 U.S. Government films —mainly USAF and USN on aeronautics; distribution restricted to New Jersey.

The Princeton Film Center, Inc.
Carter Road
Princeton
Approximately 100 U.S. Government films —OIAA, USOE, USAF, USN, and other agencies.

Art Zeiller Co., Inc.
26 Hudson Street
Ridgewood
Approximately 25 U.S. Government films —all USOE on nursing and supervision.

New Jersey Department of Education
State Museum
State House Annex
Trenton 7
Approximately 140 U.S. Government films —USBM, USDA, OIAA, and other agencies; distribution restricted to New Jersey schools and other educational groups.

State Teachers College
Audio-Visual Aids Service
Upper Montclair
Approximately 40 U.S. Government films —mainly USAF and USN on aeronautics; distribution restricted to New Jersey.

New Mexico

University of New Mexico
Extension Division
Albuquerque
Approximately 65 U.S. Government films —almost all OIAA; distribution restricted to New Mexico.

Museum of New Mexico
Museum Film Service
Santa Fe
Approximately 75 U.S. Government films —USDA, OIAA, and other agencies; distribution restricted to New Mexico.

New Mexico A and M College
State College
Approximately 45 U.S. Government films —almost all USDA; distribution restricted to New Mexico.

New York

New York State Department of Commerce
Film Library
40 Howard Street
Albany 7
Approximately 100 U.S. Government films —OIAA, USDA, USA, and USOE; distribution restricted to New York State.

Buffalo Museum of Science
Humboldt Park
Buffalo
Approximately 50 U.S. Government films —OIAA; distribution restricted to Buffalo and vicinity; no mail service.

Ideal Pictures
1558 Main Street
Buffalo 8
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Renner Motion Picture Service
539 Genessee Street
Buffalo 4
Approximately 25 U.S. Government films —mainly USOE series on supervision; distribution restricted to western New York and Pennsylvania.

Cornell University
New York State College of Agriculture
Film Service
Ithaca
Approximately 70 U.S. Government films —USDA.

Association Films, Inc.
35 West Forty-fifth Street
New York 19
Approximately 60 U.S. Government films —mostly OIAA and USOE; distribution restricted to Eastern United States.

Audio Film Center
45 West Forty-fifth Street
New York 19
Approximately 60 U.S. Government films —primarily OIAA, some USAF; distribution restricted to Eastern United States.

Brandon Films, Inc.
200 West Fifty-seventh Street
New York 19
Approximately 40 U.S. Government films —mainly OIAA and OWI.

City College of New York
Audio-Visual Extension Service
Midtown Business Center
430 West Fiftieth Street
New York
Approximately 50 U.S. Government films —mainly OIAA, some USOE supervision films.

Columbia University Press
Columbia University Educational Films
413 West One hundred-seventeenth Street
New York 27
Approximately 35 U.S. Government films —of various agencies.

Ideal Pictures Corp.
207 East Thirty-seventh Street
New York 16
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Institutional Cinema Service, Inc.
1560 Broadway
New York 19
Approximately 25 U.S. Government films —of various agencies.

New York University
Film Library
26 Washington Place
New York 3
Approximately 100 U.S. Government films —mostly OIAA.

Rochester Board of Education
Department of Visual and Radio Education
13 Fitzhugh Street, South
Rochester 14
Approximately 150 U.S. Government films —mainly OIAA and USOE; distribution restricted to Rochester Public Schools.

Rochester Public Library
115 South Avenue
Rochester 4
Approximately 50 U.S. Government films —of various agencies; distribution restricted to metropolitan Rochester and for group use.

Syracuse University
Educational Film Library
Syracuse 10
Approximately 50 U.S. Government films —mostly USBM, some USDA; distribution restricted to New York and neighboring States.

North Carolina

University of North Carolina
Bureau of Visual Education
Chapel Hill
Approximately 120 U.S. Government films —primarily OIAA and USDA; distribution restricted to North Carolina.

Stevens Pictures, Inc.
1302 East Fourth Street
Charlotte
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

National School Supply Co., Inc.
National Film Service
14 Glenwood Avenue
Raleigh
Approximately 125 U.S. Government films —USOE, OIAA, and USN; distribution restricted to Southeastern States.

North Carolina State College
Raleigh
Approximately 35 U.S. Government films —all USDA.

North Dakota

North Dakota State Department of Health
Bismarck
Approximately 25 U.S. Government films —on health subjects, mostly USPHS; distribution restricted to North Dakota.

Agricultural College
Department of Information
Fargo
Approximately 60 U.S. Government films —all USDA; distribution restricted to North Dakota.

Division of Supervised Study
Film Library
Fargo
Approximately 100 U.S. Government films —mostly OIAA and USBM; distribution restricted to North Dakota.

Ohio

Akron Board of Education
Department of Visual Aids
Akron 8
Approximately 65 U.S. Government films —USOE and other agencies; distribution restricted to Akron Public Schools.

Akron Public Library
Group Service Department
Akron 8
Approximately 60 U.S. Government films —USBM, OIAA, and other agencies; distribution restricted to Summit County.

Ideal Pictures
127 West Fifth Street
Cincinnati
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Public Library of Cincinnati
and Hamilton County
Cincinnati 2
Approximately 25 U.S. Government films —of various agencies; distribution restricted to Hamilton County.

Cleveland Public Library
325 Superior Avenue
Cleveland 14
Approximately 150 U.S. Government films —OIAA, USBM, USOE, and other agencies; distribution restricted to Cuyahoga County.

Cleveland Public Schools
Division of Visual Education
2060 Stearns Road
Cleveland 6
Approximately 175 U.S. Government films —principally USOE and USBM; distribution restricted to Cleveland Public Schools.

Sunray Films Co.
2108 Payne Avenue
Cleveland 14
Approximately 100 U.S. Government films —USOE, OWI, and OIAA.

Ohio State Department of Education
Ohio Slide and Film Exchange
Columbus
Approximately 400 U.S. Government films —mainly USOE, also USDA, OIAA, and other agencies; distribution restricted to Ohio Schools.

Ohio State University
Agricultural Extension Service
Columbus 10
Approximately 35 U.S. Government films —all USDA; distribution restricted to Ohio County Agents.

Twyman Films, Inc.
400 West First Street
Dayton 1
Approximately 100 U.S. Government films —primarily OIAA, some USOE; distribution generally restricted to Midwest States.

Cousino Visual Education Service, Inc.
2325 Madison Avenue
Toledo 2
Approximately 50 U.S. Government films —almost all OIAA; distribution generally restricted to Ohio and southern Michigan.

Toledo Public Library
Film Service
325 Michigan Street
Toledo 2
Approximately 50 U.S. Government films —of various agencies; distribution restricted to Lucas County and for non-school use.

Oklahoma

East Central State College
Audio-Visual Education
Ada
Approximately 30 U.S. Government films —OIAA and other agencies; distribution generally restricted to Oklahoma.

Southeastern State College
Film Division
Durant
Approximately 30 U.S. Government films —of various agencies; distribution generally restricted to Oklahoma.

University of Oklahoma
Extension Division
Educational Materials Services
Audio-Visual Education
Norman
Approximately 150 U.S. Government films —OIAA, USBM, USDA, and other agencies; distribution generally restricted to Oklahoma.

Ideal Pictures
136 Northwest Thirteenth Street
Oklahoma City 3
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Oklahoma City Public Schools
Visual Education Division
400 North Walnut Avenue
Oklahoma City 4
Approximately 30 U.S. Government films —of various agencies; distribution restricted to Oklahoma City.

Oklahoma A and M College
Extension Service
Stillwater

Approximately 60 U.S. Government films —almost all USDA; distribution generally restricted to Oklahoma.

Oregon

Oregon State System of Higher Education
Department of Visual Instruction
Corvallis
Approximately 240 U.S. Government films —USDA, USBM, OIAA, USOE, and other agencies.

Ideal Pictures Corp.
915 Southwest Tenth Avenue
Portland 5
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Oregon State Board of Health
Portland 5
Approximately 25 U.S. Government films —principally USPHS and IIAA; distribution restricted to Oregon.

Pennsylvania

J. P. Lilley & Son
277 Boas Street
Harrisburg
Approximately 75 U.S. Government films —OIAA, USA, OWI, and USOE; distribution restricted to Pennsylvania and adjacent States.

State Teachers College
Indiana Film Library
Indiana
Approximately 300 U.S. Government films —mostly USOE.

State Teachers College
Kutztown
Approximately 60 U.S. Government films —mostly USOE; distribution restricted to Kutztown area.

State Teachers College
Millersville Cooperative Film Library
Millersville
Approximately 300 U.S. Government films —mainly USOE and USBM; distribution restricted to Pennsylvania.

Kunz Motion Picture Service
1319 Vine Street
Philadelphia 7
Approximately 130 U.S. Government films —mostly USOE and OIAA, some USAF and USN; distribution restricted to Pennsylvania, New Jersey, Delaware, Maryland, and Ohio.

Pennsylvania College for Women
PCW Film Service
Pittsburgh 6
Approximately 150 U.S. Government films —mostly USDA and OIAA; distribution restricted to Eastern States.

Pennsylvania State College
Audio-Visual Aids Library
State College
Approximately 200 U.S. Government fil —OIAA, USOE, and other agencies.

York Film Library
Hartley Building
York
Approximately 40 U.S. Government films —USOE, USDA, and OIAA; distribution restricted to Pennsylvania.

Puerto Rico

College of Agriculture
Rio Piedras
Approximately 25 U.S. Government films —all USDA.

Rhode Island

University of Rhode Island
Library
Kingston
Approximately 40 U.S. Government films —all USDA.

World Affairs Council of Rhode Island
Crown Hotel, Room 208
Providence 3
Approximately 65 U.S. Government films —all OIAA; distribution restricted to Rhode Island and nearby Massachusetts.

South Carolina

Clemson Agricultural College
School of Vocational Education
Clemson
Approximately 160 U.S. Government films —USOE and USDA; distribution restricted to South Carolina.

University of South Carolina
Audio-Visual Aids Bureau
Columbia
Approximately 175 U.S. Government films —OIAA, USDA, USBM, USOE, and others.

South Dakota

South Dakota State College
Department of Audio-Visual Education
Brookings
Approximately 60 U.S. Government films —mainly USDA.

University of South Dakota
Vermillion
Approximately 60 U.S. Government films —USDA and OIAA.

Tennessee

University of Tennessee
Division of University Extension
Knoxville
Approximately 200 U.S. Government films —USDA, OIAA, USOE, USBM, and others.

Ideal Pictures Corp.
18 South Third Street
Memphis 3
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Memphis International Center
Goodwin Institute Building
Memphis 3
Approximately 50 U.S. Government films —all OIAA; distribution restricted to Shelby County.

Tennessee Visual Education Service, Inc.
416 A Broad Street
Nashville
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Texas

University of Texas
Division of Extension
Visual Instruction Bureau
Austin 12
Approximately 300 U.S. Government films —USOE, OIAA, USDA, USBM, and others; distribution restricted to Texas.

Visual Education, Inc.
Twelfth at Lamar
Austin 21
Approximately 35 U.S. Government films —mostly USOE and OIAA.

West Texas State College
Bureau of Public Service
Film Division
Canyon 2
Approximately 30 U.S. Government films —mostly OIAA; distribution restricted to Panhandle area of Texas and Oklahoma.

Texas A and M College
Extension Service
College Station
Approximately 65 U.S. Government films —all USDA; distribution restricted to Extension Agents.

Association Films
1915 Live Oak Street
Dallas 1
Approximately 60 U.S. Government films —mostly OIAA and USOE; distribution restricted to southern United States.

Dallas Public Library
Dallas 1
Approximately 30 U.S. Government films —mostly USBM; distribution restricted to Dallas metropolitan area.

Ideal Pictures
4000 Ross Avenue
Dallas 1
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Stevens Pictures, Inc.
213 South Pearl Street
Dallas
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Visual Education, Inc.
3905 South Main Street
Houston 2
Approximately 40 U.S. Government films —all OIAA; distribution restricted to Texas.

Sam Houston State Teachers College
Public Service Department
Audio-Visual Education
Huntsville
Approximately 25 U.S. Government films —mostly OIAA.

Texas A and I College
Film Service
Kingsville
Approximately 35 U.S. Government films —mostly OIAA; distribution restricted to Kingsville area.

Texas Technological College
Department of Visual Instruction
Lubbock
Approximately 50 U.S. Government films —mostly OIAA; distribution restricted to western Texas and eastern New Mexico.

Baylor University
Baylor Film Service
Waco
Approximately 50 U.S. Government films —mostly OIAA.

Utah

Utah State Agricultural College
Bureau of Audio-Visual Aids in Education
Logan
Approximately 55 U.S. Government films —all USDA.

Brigham Young University
Bureau of Audio-Visual Instruction
Provo
Approximately 75 U.S. Government films —mostly USBM and OIAA.

Ideal Pictures
54 Post Office Place
Salt Lake City 1
Approximately 200 U.S. Government films —mainly USOE and OIAA, some USAF, USDA, and USN.

Vermont

University of Vermont
Robert Hull Fleming Museum
Vermont Film Library
Burlington
Approximately 70 U.S. Government films —mainly USDA, some OIAA; distribution limited to Vermont.

Virginia

Virginia Polytechnic Institute
Agricultural Extension Service
Film Library
Blacksburg
Approximately 40 U.S. Government films —all USDA; distribution restricted to Virginia.

Capitol Film and Radio Co.
19 West Main Street
Richmond
Approximately 35 U.S. Government films —USOE series on bus operation, nursing, and supervision.

Ideal Pictures
219 East Main Street
Richmond 19
Approximately 200 U.S. Government films —mainly USOE and OIAA, also USAF, USDA, and USN.

Virginia State Board of Education
Bureau of Teaching Materials
Richmond 16
Approximately 150 U.S. Government films —mainly USDA and OIAA; distribution restricted to Public Schools and other State agencies of Virginia.

Washington

Central Washington College of Education
Office of Visual Education
Ellensburg
Approximately 200 U.S. Government films —USDA, USBM, OIAA, and other agencies; distribution restricted to Pacific Northwest States.

State College of Washington
Audio-Visual Center
Pullman
Approximately 250 U.S. Government films —USDA, USBM, OIAA, and other agencies; distribution restricted to Northwest States.

Seattle Art Museum
Volunteer Park
Seattle 2
Approximately 60 U.S. Government films —OIAA; distribution restricted to schools and colleges in the Pacific Northwest.

Seattle Public Library
Seattle 4
Approximately 60 U.S. Government films —of various agencies; distribution restricted to Seattle and King County.

University of Washington
Instructional Materials Center
Seattle 5
Approximately 175 U.S. Government films —USBM, USOE, and other agencies; primarily for adult and college groups.

Spokane Public Schools
Department of Audio-Visual Education
615 West Fourth Avenue
Spokane 9
Approximately125 U.S. Government films —of various agencies.

West Virginia

West Virginia University Library
Audio-Visual Aids Department
Morgantown
Approximately 150 U.S. Government films —USDA, OIAA, and other agencies; distribution restricted to West Virginia and for organizational use.

Wisconsin

Gallagher Films, Inc.
Bay Theater Building
113 South Washington Street
Green Bay
Approximately 40 U.S. Government films —USBM, USOE, and other agencies.

University of Wisconsin
Extension Division
Bureau of Visual Instruction
Madison 6
Approximately 300 U.S. Government films —USDA, OIAA, USBM, and other agencies; distribution restricted to Wisconsin.

Milwaukee Public Museum
Milwaukee
Approximately 125 U.S. Government films —USBM, OIAA, and other agencies; distribution restricted to Milwaukee and nearby areas.

Photoart Visual Service
840-844 North Plankinton Avenue
Milwaukee 3
Approximately 100 U.S. Government films —USOE, OIAA, and other agencies; distribution restricted to Wisconsin and upper Michigan Peninsula.

Wyoming

University of Wyoming
Wyoming Film Library
Laramie
Approximately 100 U.S. Government films —mainly USDA and OIAA.

Sales Sources

33

To purchase the films coded 33, apply for authorization to the Bonneville Power Administration, Portland 8, Oreg.

34

Purchase the films coded 34 from the Educational Film Laboratory, U. S. Indian School, Santa Fe, New Mex.

35

To purchase the film coded 35, apply for authorization to the U. S. Department of Health, Education, and Welfare, Staff Development Branch, Washington 25, D. C.

36

To purchase the film coded 36, apply for authorization to the U. S. Department of Health, Education, and Welfare, Staff Development Branch, Washington 25, D. C.

37

Purchase the films coded 37 from the Institute of Inter-American Affairs, 499 Pennsylvania Avenue, Washington 25, D. C.

38

Purchase the films coded 38 from the National Bureau of Standards, Washington 25, D. C. Write for an application form.

39

Purchase the films coded 39 from Photo Lab, Inc., 3825 Georgia Avenue, Washington 11, D. C.

40

To purchase the films coded 40, apply for authorization to the Tennessee Valley Authority, Film Service, Knoxville, Tenn.

41

Purchase the films coded 41 from United World Films, Inc., 1445 Park Avenue, New York 29, N. Y. Prices charged for the films are set by U. S. Government contract GS-00S-3085. Write to United World Films, Inc. for a price list.

42

To purchase the films coded 42, write to the U. S. Department of Agriculture, Extension Service, Washington 25, D. C.

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